Safety Data Sheet

TASMAN CHEMICALS
"Tasman trusted products"

Hazardous Substance, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: EMULSIFIER

Recommended use: Laundry Degreaser

Supplier: Tasman Chemicals Pty Ltd
ACN 005 072 659
Street Address: 1-7 Bell Grove
Braeside, VIC, 3195
Australia
Telephone: **+613 9587-6777**
Facsimile: **+613 9587-5255**

Emergency Telephone number: **Australia 1800 334 556**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.

Signal Word
Warning

Hazard Classifications
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A
Chronic Hazard to the Aquatic Environment - Category 2

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P280	Wear protective clothing, gloves and eye/face protection .

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

Storage Precautionary Statement
Not allocated

Disposal Precautionary Statement
Not allocated

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Dangerous Goods Class: 9

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Ethanol	64-17-5	1 - 10 %
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched	127087-87-0	60 - 100 %
Ingredients determined to be non-hazardous		Balance

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: •3Z

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 47

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Ethyl alcohol	1000	1880	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses.Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Organic Material
Base Units:	Litres
Form:	Clear Liquid
Colour:	Orange
Odour:	Nil

Solubility:	Miscible in water
Specific Gravity (20 °C):	1.00
Flash Point (°C):	> 160
Autoignition Temperature (°C):	400
Melting Point/Range (°C):	100
Boiling Point/Range (°C):	0
pH:	6 - 8
Viscosity:	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

LD50 (Rat): > 3,160 mg/kg (Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched)

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF ≥ 500 and/or log K_{ow} ≥ 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;
(a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
(b) IBCs.

UN No:	3082
Dangerous Goods Class:	9
Packing Group:	III
Hazchem Code:	•3Z
Emergency Response Guide No:	47
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

MARINE TRANSPORT
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN No:	3082
Dangerous Goods Class:	9
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

AIR TRANSPORT
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No:	3082
Dangerous Goods Class:	9
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

15. REGULATORY INFORMATION

This material/constituent(s) is covered by the following requirements:
• All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

Safety Data Sheet

TASMAN CHEMICALS
"Tasman trusted products"

NON-Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: GLOW

Recommended use: Interior / Exterior Cleaner Polish

Supplier: Tasman Chemicals Pty Ltd
ACN 005 072 659
Street Address: 1-7 Bell Grove
Braeside, VIC, 3195
Australia
Telephone: **+613 9587-6777**
Facsimile: **+613 9587-5255**

Emergency Telephone number: **Australia 1800 334 556**

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Alcohols, C9-11, ethoxylated	68439-46-3	0 - 1 % (w/v)
Cyclosiloxanes, dimethyl	69430-24-6	1 -10 % (w/v)
Ethanol	64-17-5	1 - 10 % (w/v)
Ingredients determined to be non-hazardous		Balance

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Ethyl alcohol	1000	1880	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment: SAFETY GLASSES.

Wear safety glasses.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Aqueous Formulation
Base Units:	Litres
Form:	Creamy Liquid
Colour:	White
Odour:	Floral

Solubility:	Miscible in water
Specific Gravity (20 °C):	1.00
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Melting Point/Range (°C):	0
Boiling Point/Range (°C):	100
pH:	6 - 8
Viscosity:	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: The product is readily biodegradable.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material/constituent(s) is covered by the following requirements:
• All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

GOODBYE GRAFFITI MULTIPURPOSE WIPES

SECTION 1 –IDENTIFICATION

Product Name **GOODBYE GRAFFITI MULTI PURPOSE WIPES**

Recommended Use **Graffiti Wipes for painted & sensitive surfaces**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside ,
Victoria 3195 AUSTRALIA

Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Hazardous according to criteria of ASCC

Hazard Category : Xn (Harmful), Xi (Irritant)

Risk Phrases

R11	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R50	Very toxic to aquatic organisms.
R53	May cause long term adverse effects in the aquatic environment.

Safety Phrases

S2	Keep out of reach of children
S7	Keep container tightly closed.
S16	Keep away from sources of ignition - No smoking
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S60	This material and it's container must be disposed of as hazardous waste
S61	Avoid release to the environment. Refer to special instructions

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Benzyl Alcohol	100-51-6	M
Ethyl Alcohol	64-17-5	M
D-Limonene	5989-27-5	M
Additives	Propietary	L

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed: If swallowed, DO NOT induce vomiting. Give 3 to 4 glasses of water to drink. Seek urgent medical assistance.

Eye: If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

Skin: If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists immediately transport to hospital or doctor.

Inhaled: Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

Advice to Doctor: Treat symptomatically.

In case of poisoning, contact Poisons Information Centre In Australia call Tel: 131126

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

SECTION 6 – ACCIDENTALRELEASE MEASURES

EMERGENCY ACTION:
Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS.

SPILL OR LEAK PROCEDURE:
Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

SMALL SPILLS:
Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools or HEPA vacuum system. Place into labelled drum(s) for later disposal.

LARGE SPILLS:
Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

SECTION 7 – HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. For further information please refer to the Engineering Controls of this MSDS.

Handling : Before use carefully read label. Use of safe work practises are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits :

Exposure Standards
No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

ETHYL ALCOHOL (	Worksafe Australia) **[TWA]**1,000 ppm 1,880 mg/m³ **References:** H **Mutagenic Category:** National Occupational Exposure Standard (NES), Safe Work Australia (formerlyASCC/NOHSC) (ACGIH) **[TWA]**1,000 ppm 1,880 mg/m³
BENZYL ALCOHOL	No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)
d-LIMONENE	No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

WATER AND OTHER NON-HAZARDOUS SUBSTANCES
No Exposure details available

Engineering Controls
Flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Elevated temperature or mechanical action may form vapours, mists or fumes which may require local exhaust ventilation systems.

Personal Protection Equipment

CLOTHING: PVC or rubber apron.

GLOVES: PVC or rubber.

EYES: Chemical goggles or faceshield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours/gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentration use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink Liquid

Boiling Point Melting Point: >80 degrees celcius

Vapour Pressure: Not Avalible

Specific Gravity: 0.87-0.89

Flash Point: 29 degrees celcius

Flammability Limits: >363 degrees celcius

Solubility in Water: Water washable but not soluble

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits oxides of carbon when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Chlorates, perchlorates, chromates, dichromates, nitrates and other oxidizing agents.

CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles.

SECTION 11 – TOXOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed: Harmful if swallowed. May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye: May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is anticipated, if the product is removed promptly.

Skin: Will cause irritation to the skin, with effects including; Redness, itchiness, and drying/defatting.

Inhaled: Harmful if inhaled.Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Dizziness and headache.

Chronic: Prolonged or repeated skin contact may lead to dermatitis.
Prolonged or repeated exposure may lead to irreversible damage to health.
Prolonged or repeated contact with this substance will cause sensitisation by skin contact.

Toxicological Data:
There is no other toxicological information available for this product.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxity: No Data available

Mobility: No Data available

Persistence / Degradability: No Data available

Chemical Fate Information: No Data available

This substance may cause long term adverse effects in the aquatic environment.
This substance may cause long term adverse effects in the environment

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise toxic and/or corrosive nature if applicable. Normally suitable for disposal by approved waste disposal agent.

SECTION 14 – TRANSPORT INFORMATION

UN Number: 1993 **Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S.

Dangerous Goods Class: 3 **Packing Group:** III

Label: Harmful (**Xn**), Irritant (**Xi**) **HAZCHEM CODE:** 3[Y] [Aust]

Classified as a CLASS 3 (FLAMMABLE LIQUID) Dangerous Good according to the Australian Code for theTransport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:
- Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane
- Class 7

Emergency information(Transport):
Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)
For LIQUIDS - Liquids flammable, Guide No: 15

SECTION 15 – REGULATORY INFORMATION

Poison Schedule: None allocated EPG: Guide No: 15

Inventory Status: Australia (AICS) Y, United States (TSCA) Y, Canada (DSL) Y, Europe (EINECS/ELINCS) Y**,** Japan (MITI) Y, South Korea (KECL) Y

Y = all ingredients are on the inventory.

SECTION 16 – OTHER INFORMATION

Additional Information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

ABBREVIATIONS:
ADB - Air-Dry Basis.
BEI - Biological Exposure Indice(s)

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

GROUT SEALER

SECTION 1 –IDENTIFICATION

Product Name **GROUT SEALER**

Recommended Use **Grout Sealant**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside ,
Victoria 3195 AUSTRALIA

Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Non Hazardous according to criteria of Safe Work Australia.

Grout Sealer is not classified as a **Dangerous Good** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Water	7732-18-5	VH
Fluoroacrylate emulsion	Proprietary	L

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed: If swallowed DO NOT induce vomiting. Give a glass of water to drink. Seek medical assistance or contact the Poisons Information Centre if symptoms persist.

Eye: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Inhaled Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position. Seek medical attention if effects persist.

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

This material is not combustible under normal conditions. However, it will breakdown under fire conditions and the organic component may burn. Not considered to be a significant fire risk.

Fumes containing carbon dioxide, carbon monoxide and sulfur dioxide may be formed in large fires.

Keep containers cool by spraying with water to prevent pressure building up inside the drums, causing them to burst.

Extinguishing Media

Use water spray, 'alcohol' foam, dry chemical or carbon dioxide.
Avoid using large quantities of water.

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills

Slippery when spilled. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and/or eye contamination and the inhalation of mists or aerosols. Contain using sand or soil. Carefully dilute with water (fine spray or fog). Wash down area with excess water.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Keep containers closed at all times when not in use. Check regularly for leaks. Remove drum bungs slowly to release any internal pressure.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : No value assigned for this specific material by the Occupational Health and Safety Commission

Engineering Control Measures : Natural ventilation should be adequate under normal use conditions, Keep containers closed when not in use.

Personal Protective Equipment :

Eye: Safety glasses with side shields

Hands: Impervious plastic or rubber gloves.

Other: Overalls and protective footwear.

Respirator: Use with adequate ventilation.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Opaque White Liquid	pH (as is):	4 to 6
Melting Point:	0oC	Flash Point:	Not applicable
Boiling Point:	100°C (approximately)	Volatiles	Water only
Density:@ 25°C	1.00 grams/mL (approximately)	Flammable Limits:	Not applicable
Solubility:	Miscible	Odour	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with strong oxidising agents

Reactivity May react with strong oxidants.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects

No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing:	The product is of low acute oral toxicity in the rat. May be harmful if swallowed
Eye:	An eye irritant. Contamination of the eyes with may produce irritation
Skin:	Irritating to skin. On repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhaled:	Not normally a hazard due to the non-volatile nature of the product. The vapour or mist is irritating.

Chronic Effects

Principal routes of exposure are by accidental skin or eye contact
Prolonged or repeated skin contact may cause drying with cracking, irritation and possible contact dermatitis.

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways. Spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority . Normally suitable for disposal at approved land waste site

SECTION 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	Not required	UN Number :	Not applicable
Dangerous Goods Class :	Not applicable	Subsidiary Risk :	Not applicable
Hazchem Code :	Not applicable	Packing Group :	Not applicable

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, not classified as non hazardous according to criteria of Safe Work Australia

Poisons Schedule Not Applicable

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	Location	Telephone	Ask For
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

LIFT OFF

SECTION 1 –IDENTIFICATION

Product Name **LIFT OFF**

Recommended Use **Tile & Grout Cleaner**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside ,
Victoria 3195 AUSTRALIA

Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : Xi (Irritant)

Risk Phrases

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin

Safety Phrases

S2 Keep out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 Avoid contact with skin, wash immediately with plenty of soap suds
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible)

Lift Off is not classified as a **Dangerous Good** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Water	7732-18-5	VH
Sulphamic Acid	5329-14-6	L
Non ionic surfactant	9016-45-9	L
Dye	Proprietary	L

VH>60% H>30-60% M=10-30% L=<10%

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Give a 1-3 glasses of water to drink. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhaled	Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. If NOT breathing, apply artificial resuscitation. Allow patient to assume most comfortable position. Seek medical attention if effects persist.

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

This material is not combustible under normal conditions. However, it can react with certain metals to produce flammable hydrogen gas. On burning will emit toxic fumes. Fire fighters should wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion
Keep containers cool by spraying with water to prevent pressure building up inside the drums, causing them to burst.

Extinguishing Media

Use water spray, 'alcohol' foam, dry chemical or carbon dioxide. Avoid using large quantities of water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills

Increase ventilation. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours or mists. Contain using sand or soil – prevent run off into drains and waterways. Use absorbent (soil, sand vermiculite or other inert material). Neutralise with lime or soda ash. Collect and seal in properly labelled drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Store in a dry cool environment. Keep containers closed at all times when not in use.
Store away from alkalis or chlorine compounds. Check regularly for leaks.
Remove drum bungs slowly to release any internal pressure.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : No value assigned for this specific material by the Occupational Health and Safety Commission

Engineering Control Measures : Natural ventilation should be adequate under normal use conditions, Keep containers closed when not in use.

Personal Protective Equipment :

Eye: Safety Glasses

Hands: Impervious plastic or rubber gloves.

Other: Not applicable

Respirator: Not applicable

Always wash hands before eating, drinking, smoking or using the toilet.

Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Clear Green Liquid	pH (as is):	2 to 3
Melting Point:	0oC	Flash Point:	Not applicable
Boiling Point:	100°C (approximately)	Volatiles	Water only
Density:@ 25°C	1.14 grams/mL (approximately)	Flammable Limits:	Not applicable
Solubility:	Miscible		

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with alkalis and strong oxidising agents

Reactivity May react with strong oxidants.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects

No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing: May cause severe pain and burning of the mouth & oesophagus, nausea, vomiting & Diarrhoea. Oral LD50 = 3160 mg/kg (rat)

Eye: A severe eye irritant. May cause severe eye damage

Skin: Contact with skin will result in severe irritation. Repeated or prolonged skin contact may cause burns and permanent damage.

Inhaled: Vapour or mist may be irritant to mucous membranes and respiratory tract

Chronic Effects

Principal routes of exposure are by accidental skin or eye contact
Prolonged or repeated skin contact may have a corrosive action on human tissues

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways.
Spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority .

SECTION 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	Not required	UN Number :	Not applicable
Dangerous Goods Class :	Not applicable	Subsidiary Risk :	Not applicable
Hazchem Code :	Not applicable	Packing Group :	Not applicable

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, classified as hazardous according to criteria of Safe Work Australia

Poisons Schedule Schedule 5

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

MULTI STRIP

SECTION 1 –IDENTIFICATION

Product Name **MULTI STRIP**

Recommended Use **Floor Stripper**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA

Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Multi Strip is classified as hazardous according to criteria of Safe Work Australia

Multi Strip is classified as **Dangerous Goods Class 3** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazard Category : Xn (Harmful), C (Corrosive), F (Highly flammable)

Risk Phrases

R11	Highly flammable
R20/22	Harmful by inhalation and if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact

Safety Phrases

S1/2	Keep locked up and out of reach of children.
S13	Keep away from food, drink and animal foodstuffs
S24	Avoid contact with skin
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37	Wear suitable gloves
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S61	Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Benzyl Alcohol	100-51-6	H
D-Limonene	5989-27-5	M
Non ionic surfactant	37311-00-5	L
Ethanol	64-17-5	M
Potassium Hydroxide	1310-58-3	L

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Give a glass of water to drink. Seek immediate medical assistance or contact the Poisons Information Centre.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhaled	Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position. Seek medical attention if effects persist. If not breathing apply artificial respiration
Advice to Doctor	Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Flammable liquid. May form flammable mixtures with air. Burns with a colourless flame. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sensitive to static discharge. Fumes containing carbon dioxide, carbon monoxide and sulfur dioxide may be formed in large fires. Keep containers cool by spraying with water to prevent pressure building up inside the drums, causing them to burst. Avoid contact with incompatibles such as oxidising agents, organic peroxides, radioactive substances, flammable gases in bulk, poisonous gases, spontaneously combustible substances.

Extinguishing Media

Flammable liquid. Fire fighters should wear full protective equipment including self-contained breathing apparatus. Use water to cool exposed containers. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Use fog (or if unavailable fine water spray), dry chemical, carbon dioxide or alcohol stable foam. Avoid using large quantities of water.

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills

Ventilate area of leak or spill. In the event of spillage eliminate all sources of ignition and take measures to prevent static discharge - no smoking. Use non-sparking tools and equipment.Clean up personnel should wear full protective equipment including self-contained breathing apparatus. Keep unnecessary and unprotected personnel from entering area. Prevent run-off into drains and waterways. Contain spill for salvage or absorb in inert absorbent material (eg vermiculite, dry sand, or earth). Do not use combustible materials, such as sawdust. Place used absorbent in suitable, sealable, labelled containers, follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent and water.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from oxidizing materials. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be NO SMOKING areas. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : Occupational Exposure Limits : Threshold Limit Values
Threshold Limit Value (TLV) = 2 mg/m^3 (Potassium Hydroxide) (Peak Limitation)
Time Weighted Average (TWA) = 1880 mg/m^3 (Ethanol)

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

Peak Limitation : For some rapidly acting substances and irritants, the averaging of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed. See Chapter 6: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by Worksafe Australia.

Engineering Control Measures : Natural ventilation should be adequate under normal use conditions, Keep containers closed when not in use.

Personal Protective Equipment :

Eye:	Safety glasses with side shields and/or face shield
Hands:	Impervious plastic or rubber gloves. . (eg Nitrile rubber gloves)
Other:	Overalls and protective footwear.
Respirator:	Use with adequate ventilation. If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. An organic vapour respirator (AS 1715/1716) is the recommended respirator recommended for this product

Always wash hands before eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Pale Amber Liquid	pH (as is):	12 to 13
Boiling Point:	90°C (approximately)	Flash Point:	26 ºC(approximately)
Density:@ 25°C	0.96 grams/mL (approximately)	Vapour Pressure	40 mmHg @19ºC
Solubility:	Emulsifiable		

SECTION 10 – STABILITY AND REACTIVITY

Stability	Incompatible with oxidising agents, organic peroxides, radioactive substances, flammable gases in bulk, poisonous gases, spontaneously combustible substances.
Reactivity	May react with oxidising agents, organic peroxides and strong acids

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects - No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing:	This product may cause damage to the gastro-intestinal tract. Ingestion may result in nausea, abdominal irritation, pain and vomiting. LD50 (Ethanol) = 7060 mg/kg (Rat)
Eye:	An eye irritant. Contamination of the eyes with may produce corneal damage
Skin:	Skin contact results in loss of natural oils . On repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhaled: Harmful by inhalation Prolonged exposure may cause drowsiness. The vapour or mist is irritating. . LC50 (Ethanol) = 38 mg/l/ 10 h (Rat)

Chronic Effects

Principal routes of exposure are by accidental skin or eye contact. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible contact dermatitis.

SECTION 12 – ECOLOGICAL INFORMATION

DEGRADABILITY : Readily biodegradable in water

MOBILITY : Adsorption/desorption : Product readily filters into the soil.

BIOACCUMULATION : Bioconcentration factor : Not bioaccumulable.

Avoid contaminating waterways. Minor spills and residue may be hosed down with excess water to trade waste treatment plant. Major spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. If possible contain spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute BUT contain. If large quantities of this material enters the waterways contact the Environmental Protection Authority or you local Waste Management Authority

SECTION 14 – TRANSPORT INFORMATION

Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (CONTAINS ETHANOL AND POTASSIUM HYDROXIDE)		
UN Number :	2924	Dangerous Goods Class :	3
Hazchem Code :	3W	Packing Group :	III
Subsidiary Risk :	8		

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, classified as hazardous according to criteria of ASCC

Poisons Schedule Schedule 5

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	Location	Telephone	Ask For
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

ORANGE BLAST

SECTION 1 –IDENTIFICATION

Product Name **ORANGE BLAST**

Recommended Use Concentrated Heavy Duty Water Soluble Degreaser

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : Xn (Harmful), F (Flammable)

Risk Phrases

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin
R37/38	Irritating to respiratory system and skin
R43	May cause sensitisation by skin contact.
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness and cracking

Safety Phrases

S2	Keep out of reach of children
S23	Do not breathe gas/fumes/vapour/spray
S24	Avoid contact with skin
S28	After contact with skin, wash immediately with plenty of soap and water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment.

Orange Blast is classified as **Dangerous Goods Class 3** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
D'Limonene	138-86-3	H
Nonionic Surfactants Vegetable based	68515-73-1	M

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Wash out mouth with water. Where vomiting occurs naturally have head below hip level in order to reduce risk of aspiration Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhaled	Remove victim from source of contamination or move victim to fresh air. Allow patient to assume most comfortable position. Seek medical attention if effects persist.

Advice to Doctor Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Hoses should be electrically continuous and containers bonded to avoid static charge build-up. Keep the container tightly closed

Extinguishing Media
Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire expose containers cool

Special Fire Fighting Procedures
In the event of a fire, water full protective clothing and NIOSH approved self-contained breathing apparatus with full face operated in the pressure demand or other positive pressure mode

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (eg vermiculite, dry sand, or earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Place used absorbent in suitable sealed containers, follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent and water – do not allow product to enter drains sewers or watercourses – inform the local authorities if this occurs.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Keep containers closed at all times when not in use. Check regularly for leaks

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : Occupational Exposure Limits : Threshold Limit Values

Threshold Limit Value (TWA) = 80 ppm (D'Limonene)

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

Engineering Control Measures : Provide sufficient ventilation to keep airborne levels below exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate a flameproof ventilation system is required

Personal Protective Equipment :

Eye: Safety glasses with side shields

Hands: Impervious plastic or rubber gloves.

Other: Not applicable

Respirator: Use with adequate ventilation.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Vapour Pressure	0.4 mm Hg @ 20°C
Melting Point:	Not applicable	Flash Point:	55 ºC
Boiling Point:	Not applicable	Flammable Limits:	LEL 0.7 UEL 6.1
Specific Gravity	0.87 grams/mL (approximately)	Solubility:	Immiscible in water

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with strong oxidising agents

Reactivity May react with strong oxidants.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects
No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing: Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury.

Eye: Will cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Skin: Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin.

Inhaled:	Inhalation of vapours may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset.

Chronic Effects

Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage.

SECTION 12 – ECOLOGICAL INFORMATION

Do not contaminate waterways. Minor spills and residue may be hosed down with excess water to trade waste treatment plant. Major spills should be contained, and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. If possible contain spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute BUT contain. If large quantities of this material enters the waterways contact the Environmental Protection Authority or you local Waste Management Authority

SECTION 14 – TRANSPORT INFORMATION

Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	TERPENE HYDROCARBONS N.O.S		
UN Number :	UN 2319	Dangerous Goods Class :	3
Subsidiary Risk :	Not applicable	Hazchem Code :	3[Y]
Packing Group :	III		

SECTION 15 – REGULATORY INFORMATION

Classification	Based upon information, classified as hazardous according to criteria of Safe Work Australia
Poisons Schedule	Not applicable

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

RIPPER STRIPPER

SECTION 1 –IDENTIFICATION

Product Name **RIPPER STRIPPER**

Recommended Use **Floor Polish Stripper**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : Xi (Irritant)

Risk Phrases

R36/37/38 Irritating to eyes, respiratory system and skin

Safety Phrases

S1/2	Keep locked up and out of reach of children
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or the Poisons Information Centre
S28	Avoid contact with skin, wash immediately with plenty of soap suds
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Ripper Stripper is not classified as a **Dangerous Good** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Water	7732-18-5	VH
Sodium Hydroxide	1310-73-2	L
Ethylene Glycol Phenyl Ether	122-99-6	M
Non Ionic Surfactant	39464-66-9	L
Monoethanolamine	141-43-5	L
Perfume	Propietary	L

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Give a glass of water to drink. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhaled	Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position. Seek medical attention if effects persist.

Advice to Doctor Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

This material is not combustible under normal conditions. However, it will breakdown under fire conditions and the organic component may burn. Not considered to be a significant fire risk.
Fumes containing carbon dioxide, carbon monoxide and sulfur dioxide may be formed in large fires.
Keep containers cool by spraying with water to prevent pressure building up inside the drums, causing them to burst.

Extinguishing Media

Use water spray, 'alcohol' foam, dry chemical or carbon dioxide. Avoid using large quantities of water.

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills

Slippery when spilled. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and/or eye contamination and the inhalation of mists or aerosols. Contain using sand or soil. Carefully dilute with water (fine spray or fog). Wash down area with excess water.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Keep containers closed at all times when not in use. Check regularly for leaks. Remove drum bungs slowly to release any internal pressure.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : Occupational Exposure Limits : Threshold Limit Values

Time Weighted Average (TWA)	=	2 mg/m^3 (Sodium Hydroxide) (Peak Limitation)
Time Weighted Average (TWA)	=	7.5mg/m^3 (Monoethanolamine)
Short Term Exposure Limit (STEL)	=	15 mg/m^3 (Monoethanolamine)

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

Peak Limitation : For some rapidly acting substances and irritants, the averaging of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed.

STEL (Short Term Exposure Limit): the average airborne concentration over a 15 minute period that should not be exceeded at any time during a normal eight-hour work day.
NOTICE : Absorption through the skin may be a significant source of exposure

Engineering Control Measures : Natural ventilation should be adequate under normal use conditions, Keep containers closed when not in use.

Personal Protective Equipment :

Eye: Safety glasses with side shields

Hands: Impervious plastic or rubber gloves.

Other: Overalls and protective footwear.

Respirator: Use with adequate ventilation.

Always wash hands before eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Pale Amber Liquid	pH (as is):	12 to 13
Melting Point:	0oC	Flash Point:	Not applicable
Boiling Point:	100°C (approximately)	Volatiles	Water only
Density:@ 25°C	1.06 grams/mL (approximately)	Flammable Limits:	Not applicable
Solubility:	Miscible		

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with strong oxidising agents

Reactivity May react with strong oxidants.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects

No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing: This product is irritating to the gastro-intestinal tract.
Ingestion may result in nausea, abdominal irritation, pain and vomiting.

Eye: An eye irritant. Contamination of the eyes with may produce corneal damage

Skin: Irritating to skin. On repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhaled: Not normally a hazard due to the non-volatile nature of the product. The vapour or mist is irritating.

Chronic Effects

Principal routes of exposure are by accidental skin or eye contact. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible contact dermatitis.

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways. Spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority . Normally suitable for disposal at approved land waste site

SECTION 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	Not required	UN Number :	Not applicable
Dangerous Goods Class :	Not applicable	Subsidiary Risk :	Not applicable
Hazchem Code :	Not applicable	Packing Group :	Not applicable

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, classified as hazardous according to criteria of Safe Work Australia

Poisons Schedule Schedule 6

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	Location	Telephone	Ask For
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

Safety Data Sheet

TASMAN CHEMICALS
"Tasman trusted products"

Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: SLATE FINISH

Recommended use: Floor Polish

Supplier: Tasman Chemicals Pty Ltd
ACN 005 072 659
Street Address: 1-7 Bell Grove
Braeside, VIC, 3195
Australia
Telephone: **+613 9587-6777**
Facsimile: **+613 9587-5255**

Emergency Telephone number: **Australia 1800 334 556**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.

Signal Word
Warning

Hazard Classifications
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P280	Wear protective clothing, gloves and eye/face protection .

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

Storage Precautionary Statement
Not allocated

Disposal Precautionary Statement
Not allocated

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7	0.1 -1 %
Ammonium hydroxide	1336-21-6	0.1 - 1 %
Ethane, 1,2-dimethoxy-	110-71-4	1 - 10 %
Ethanol, 2-butoxy-, phosphate (3:1)	78-51-3	1 - 10 %
Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	25265-77-4	1 - 10 %
Ingredients determined to be non-hazardous		Balance

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES.

Wear safety shoes, overalls, gloves, chemical goggles.Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Aqueous Formulation
Base Units:	Litres
Form:	Creamy Liquid
Colour:	White
Odour:	Slight Ammonia

Solubility: Miscible in water

Specific Gravity (20 °C):	1.04
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Melting Point/Range (°C):	0
Boiling Point/Range (°C):	100
pH:	8 - 9
Viscosity:	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material/constituent(s) is covered by the following requirements:

• All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

TASMAN CHEMICALS "Tasman trusted products"

MATERIAL SAFETY DATA SHEET

Slate Seal Solvent

SECTION 1 – IDENTIFICATION

Product Name **Slate Seal Solvent**

Recommended Use **Solvent for removing sealer**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : Xn (Harmful), F (Flammable)

Risk Phrases

R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R37/38	Irritating to respiratory system and skin
R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness and cracking
R67	Vapours may cause drowsiness and dizziness

Safety Phrases

S16	Keep away from sources of ignition - No smoking.
S20	When using, do not eat or drink.
S23	Do not breathe gas/fumes/vapour/spray
S24	Avoid contact with skin
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment
S61	Avoid release to the environment.

.

Slate Seal Solvent is classified as **Dangerous Goods Class 3** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Xylene	1330-20-7	VH

VH>60% H>30-60% M=10-30% L=<10%

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Wash out mouth with water. Where vomiting occurs naturally have head below hip level in order to reduce risk of aspiration Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with soap and water. If symptoms develop seek medical attention
Inhaled	Remove victim from source of contamination or move victim to fresh air. Allow patient to assume most comfortable position. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical attention if effects persist.
Advice to Doctor	Treat symptomatically or consult a Poisons Information Centre

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Prevent build-up of flammable vapours. Hoses should be electrically continuous and containers bonded to avoid static charge build-up. Keep the container tightly closed

Extinguishing Media
Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire expose containers cool

Special Fire Fighting Procedures
In the event of a fire, water full protective clothing and NIOSH approved self-contained breathing apparatus with full face operated in the pressure demand or other positive pressure mode

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills
Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (eg vermiculite, dry sand, or earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Place used absorbent in suitable sealed containers, follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent and water – do not allow product to enter drains sewers or watercourses – inform the local authorities if this occurs.

SECTION 7 – HANDLING AND STORAGE

Handling : Open containers cautiously as containers may be under pressure. Use only in a well ventilated area. Avoid skin, eye contact and breathing vapour

Storage : Store in a well-ventilated place away from ignition sources, foodstuffs and clothing. Keep containers closed when not in use. Take precautions against static electricity discharges.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits :

EXPOSURE LIMITS:	Name	TWA		STEL	
		ppm	mg/m^3	ppm	mg/m^3
	Xylene	80	350	150	655

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

STEL (Short Term Exposure Limit): the average airborne concentration over a 15 minute period that should not be exceeded at any time during a normal eight-hour work day.
NOTICE : Absorption through the skin may be a significant source of exposure

Engineering Control Measures : Provide sufficient ventilation to keep airborne levels below exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate a flameproof ventilation system is required

Personal Protective Equipment :

Eye:	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Hands:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Other:	Overalls and protective footwear.
Respirator:	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. An organic vapour respirator (AS 1715/1716) is the recommended respirator recommended for this product

Always wash hands before eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Clear Liquid	Solubility:	Immiscible in water
Melting Point:	Not Applicable	Flash Point:	29°C
Boiling Point:	140°C (approximately)	Vapour Pressure	8 mm Hg @ 20°C
Specific Gravity:@ 25°C	0.86 – 0.88	Flammable Limits:	LEL 1.0; UEL 7.0

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with Strong oxidizing agents and strong acids

Reactivity Flammable. Avoid heat and sources of ignition. Prevent build-up of flammable vapours.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects
No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing:	Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury or death. Oral LD50 (Xylene) = 4300 mg/kg (Rabbit)
Eye:	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.
Skin:	Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin. Dermal LD50 (Xylene) = 500 mg/kg (Rabbit)

Inhaled:	Inhalation of vapours may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset. Substernal pain, cough, and hoarseness are also reported. High vapour concentrations are anaesthetic and central nervous system depressants. Inhalation LC50 (Rabbit) = > 20mg/L / 4 hour

Chronic Effects

Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage. Repeated exposure can damage bone marrow, causing low blood cell count. May damage the liver and kidneys.

SECTION 12 – ECOLOGICAL INFORMATION

Do NOT contaminate waterways. Toxic to aquatic organisms, may cause long term effects to the aquatic environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. If possible contain spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute BUT contain. If large quantities of this material enters the waterways contact the Environmental Protection Authority or you local Waste Management Authority

SECTION 14 – TRANSPORT INFORMATION

Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	XYLENE		
UN Number :	1307	Dangerous Goods Class :	3
Hazchem Code :	3[Y]	Packing Group :	III
Subsidiary Risk :	Not applicable		

SECTION 15 – REGULATORY INFORMATION

Classification	Based upon information, classified as hazardous according to criteria of Safe Work Australia
Poisons Schedule	Schedule 6

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS "Tasman trusted products"

MATERIAL SAFETY DATA SHEET

SPRAY SEAL

SECTION 1 – IDENTIFICATION

Product Name **SPRAY SEAL**

Recommended Use **Penetrating Sealant**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195 AUSTRALIA
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : T (Toxic), F (Flammable)

Risk Phrases

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin
R36/37/38	Irritating to eyes, respiratory system and skin
R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness and cracking

Safety Phrases

S2	Keep out of the reach of children
S9	Keep container in a well-ventilated place
S16	Keep away from sources of ignition - No smoking
S23	Do not breathe gas/fumes/vapour/spray
S24/25	Avoid contact with skin and eyes
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S61	Avoid release to the environment.

Spray Seal is classified as **Dangerous Goods Class 2** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Ketone	67-64-1	M
Solvent Naptha, Petroleum, Light Aliphatic	67472-89-8	M
Acrylic Polymer	Proprietary	L
Fragrance	Proprietary	L
Hydrocarbon Propellant	106-97-8	H

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Wash out mouth with water. Where vomiting occurs naturally have head below hip level in order to reduce risk of aspiration. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with soap and water. If symptoms develop seek medical attention
Inhaled	Remove victim from source of contamination or move victim to fresh air. Allow patient to assume most comfortable position. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical attention if effects persist.

Advice to Doctor Treat symptomatically or consult a Poisons Information Centre

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Flashpoint below 30ºC. Beware of impact of exploding cans Prevent build-up of flammable vapours. Hoses should be electrically continuous and containers bonded to avoid static charge build-up. Keep the container tightly closed

Extinguishing Media
Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire expose containers cool

Special Fire Fighting Procedures
In the event of a fire, water full protective clothing and NIOSH approved self-contained breathing apparatus with full face operated in the pressure demand or other positive pressure mode

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills
Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (eg vermiculite, dry sand, or earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Place used absorbent in suitable sealed containers, follow state or local authority regulations and guidelines for the disposal of the waste. Aerosol cans can be recycled – contact your local body council for details of recycling plans in your area Clean area with detergent and water – do not allow product to enter drains sewers or watercourses – inform the local authorities if this occurs.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid skin and eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Keep containers closed at all times when not in use. Check regularly for leaks

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits : Occupational Exposure Limits : Threshold Limit Values
Time Weighted Average (TWA) = 1900 mg/m^3 (Hydrocarbon Propellant)

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

Engineering Control Measures : Provide sufficient ventilation to keep airborne levels below exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate a flameproof ventilation system is required

Personal Protective Equipment :

Eye: Safety glasses with side shields

Hands: Impervious plastic or rubber gloves.

Other: Not applicable

Respirator: Use with adequate ventilation.

Always wash hands before eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Misty Spray	Vapour Pressure	55 psi
Melting Point:	Not applicable	Flash Point:	< 21 ºC
Boiling Point:	Not applicable	Flammable Limits:	Not applicable
Specific Gravity	0.75 grams/mL (approximately)	Solubility	Immiscible in water

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with strong oxidizing agents

Reactivity Flammable. Avoid heat and sources of ignition. Prevent build-up of flammable vapours.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects
No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing: Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury or death.

Eye: Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Skin: Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin.

Inhaled: Inhalation of vapours may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset.

Substernal pain, cough, and hoarseness are also reported. High vapour concentrations are anaesthetic and central nervous system depressants.

Chronic Effects

Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage. Repeated exposure can damage bone marrow, causing low blood cell count. May damage the liver and kidneys.

SECTION 12 – ECOLOGICAL INFORMATION

Do not contaminate waterways. Minor spills and residue may be hosed down with excess water to trade waste treatment plant. Major spills should be contained, and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. If possible contain spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute BUT contain. If large quantities of this material enters the waterways contact the Environmental Protection Authority or you local Waste Management Authority

SECTION 14 – TRANSPORT INFORMATION

Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	AEROSOLS	UN Number :	1950
Dangerous Goods Class :	2	Subsidiary Risk :	Not applicable
Hazchem Code :	2Y	Packing Group :	Not applicable

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, classified as hazardous according to criteria of Safe Work Australia

Poisons Schedule Not applicable

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS "Tasman trusted products"

MATERIAL SAFETY DATA SHEET

STONE SHIELD

SECTION 1 – IDENTIFICATION

Product Name **STONE SHIELD**

Recommended Use **SLATE SEALANT**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside , Victoria 3195, Australia
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category : Xn (Harmful), F (Flammable)

Risk Phrases

R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S2	Keep out of reach of children
S7/9	Keep container tightly closed and in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking
S23	Do not breathe gas/fumes/vapour/spray
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of soap suds
S29	Do not empty into drains
S33	Take precautionary measures against static discharges
S36/37/39	Wear suitable protective clothing, gloves & eye/face protection
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Stone Shield is classified as **Dangerous Goods Class 3** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Mineral Turpentine	9005-90-7	H
Acrylic Polymer	Proprietary	L
Alkylalkoxysilane	2943-75-1	L
Butyl Acetate	64-17-5	M
N-Octyl-4-isothiazolin-3-one	26530-20-1	L

VH>60% H>30-60% M=10-30% L=<10%

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed:	If swallowed DO NOT induce vomiting. Wash out mouth with water. Where vomiting occurs naturally have head below hip level in order to reduce risk of aspiration. Seek immediate medical assistance or contact the Poisons Information Centre immediately.
Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with soap and water. If symptoms develop seek medical attention
Inhaled	Remove victim from source of contamination or move victim to fresh air. Allow patient to assume most comfortable position. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Seek medical attention if effects persist.
Advice to Doctor	Treat symptomatically or consult the Poisons Information Centre

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Prevent build-up of flammable vapours. Hoses should be electrically continuous and containers bonded to avoid static charge build-up.
Keep the container tightly closed. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds may be evolved when this material undergoes combustion or thermal or oxidative degradation.

Extinguishing Media
Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire expose containers cool

Special Fire Fighting Procedures
In the event of a fire, water full protective clothing and NIOSH approved self-contained breathing apparatus with full face operated in the pressure demand or other positive pressure mode

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills
Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (eg vermiculite, dry sand, or earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Place used absorbent in suitable sealed containers, follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent and water – do not allow product to enter drains sewers or watercourses – inform the local authorities if this occurs.

SECTION 7 – HANDLING AND STORAGE

Handling : Open containers cautiously as containers may be under pressure. Use only in a well ventilated area. Avoid skin, eye contact and breathing vapour

Storage : Store in a well-ventilated place away from ignition sources, foodstuffs and clothing. Keep containers closed when not in use. Take precautions against static electricity discharges.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits :

EXPOSURE LIMITS: Name	TWA		STEL	
	ppm	mg/m^3	ppm	mg/m^3
Mineral Turpentine	100	480	N/A	N/A
Butyl Acetate	150	713	200	950

Exposure Standards (TWA) is the time-Weighted average airborne concentration over an eight-hour working day, for a five day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, cause undue discomfort to, nearly all workers.

STEL (Short Term Exposure Limit): the average airborne concentration over a 15 minute period that should not be exceeded at any time during a normal eight-hour work day.
NOTICE : Absorption through the skin may be a significant source of exposure

Engineering Control Measures : Provide sufficient ventilation to keep airborne levels below exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate a flameproof ventilation system is required

Personal Protective Equipment :

Eye:	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Hands:	Wear impervious protective clothing, including boots, Nitrile, PVC or rubber gloves (AS2161) gloves, apron or coveralls, as appropriate, to prevent skin contact.
Other:	Chemical-resistant coveralls and safety footwear (AS3765/2210).
Respirator:	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Wear an approved respirator suitable for combined particulate and organic vapours (boiling point >65'C) (AS1715/1716) Where air- filtering respirators are unsuitable (eg, airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Always wash hands before eating, drinking, smoking or using the toilet.
Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Clear Liquid	Solubility:	Immiscible in water
Melting Point:	Not Applicable	Flash Point:	30°C
Boiling Point:	160°C (approximately)	Vapour Pressure	8 mm Hg @ 20°C
Specific Gravity:@ 25°C	0.80 – 0.82	Flammable Limits:	LEL 1.0; UEL 7.0

SECTION 10 – STABILITY AND REACTIVITY

Health Effects
No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing:	Ingestion may cause nausea, vomiting, shortness of breath, headache, gastritis and intoxication. Ingestion of larger amounts may cause narcotic effects. Minute amounts aspirated into the lungs can produce chemical pneumonitis with pulmonary injury. Oral LD50 (Mineral Turpentine) > 2000 mg/kg (Rat), Oral LD50 (Butyl Acetate) > 10,800 mg/kg (Rat)
Eye:	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Skin:	Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin. Dermal LD50 (Mineral Turpentine) = 2000 mg/kg (Rat), Dermal LD50 (Butyl Acetate) = 500 mg/kg (Rat)
Inhaled:	Inhalation of vapours may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset. Substernal pain, cough, and hoarseness are also reported. Inhalation LC50 (Rat) : Greater than near-saturated vapour concentration / 4hrs

Chronic Effects

Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage. May damage the liver and kidneys.

SECTION 12 – ECOLOGICAL INFORMATION

Do NOT contaminate waterways. Toxic to aquatic organisms, may cause long term effects to the aquatic environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations. If possible contain spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute BUT contain. If large quantities of this material enters the waterways contact the Environmental Protection Authority or you local Waste Management Authority

SECTION 14 – TRANSPORT INFORMATION

Classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	FLAMMABLE LIQUID, N.O.S.		
UN Number :	1866	Dangerous Goods Class :	3
Hazchem Code :	3YE	Packing Group :	III
Subsidiary Risk :	Not applicable		

SECTION 15 – REGULATORY INFORMATION

Classification	Based upon information, classified as hazardous according to criteria of Safe Work Australia
Poisons Schedule	Schedule 6

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	**Location**	**Telephone**	**Ask For**
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

TASMAN CHEMICALS
"Tasman trusted products"

MATERIAL SAFETY DATA SHEET

TRU GRIT

SECTION 1 –IDENTIFICATION

Product Name **TRU GRIT**

Recommended Use **Heavy Duty Hand Cleaner**

Supplier TASMAN CHEMICALS PTY LTD
ACN : 005 072 659
Street Address 1-7 Bell Grove, Braeside ,
Victoria 3195 AUSTRALIA
Telephone Number (03) 9587 6777
Facsimilie (03) 9587 5255
Email taschem@taschem.com.au
Website www.tasmanchemicals.com.au

Emergency Telephone Number **1 800 334 556**

SECTION 2 – HAZARDS INDENTIFICATION

Non Hazardous according to criteria of Worksafe Australia.

Tru Grit is not classified as a **Dangerous Good** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%m/m)
Water	7732-18-5	H
Anionic Surfactant	68585-34-2	L
Non ionic Surfactant	9002-92-0	L
Coconut Diethanolamide	8051-30-7	L
D'Limonene	5989-27-5	L
Dye	Propietary	L

VH>60% **H>30-60%** **M=10-30%** **L=<10%**

SECTION 4 – FIRST AID MEASURES

First Aid

Swallowed: If swallowed DO NOT induce vomiting. Give a glass of water to drink. Seek immediate medical assistance or contact the Poisons Information Centre immediately.

Eye: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised by the Poisons Information Centre or a doctor, or for at least 15 minutes

Skin: Not Applicable

Inhaled Not applicable

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

This material is not combustible under normal conditions. However, it will breakdown under fire conditions and the organic component may burn. Not considered to be a significant fire risk.
Fumes containing carbon dioxide, carbon monoxide and sulfur dioxide may be formed in large fires.

them to burst.

Extinguishing Media

Use water spray, 'alcohol' foam, dry chemical or carbon dioxide. Avoid using large quantities of water.

SECTION 6 – ACCIDENTALRELEASE MEASURES

Spills

Slippery when spilled. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and/or eye contamination and the inhalation of mists or aerosols. Wash down area with excess water.

SECTION 7 – HANDLING AND STORAGE

Handling : Avoid eye contact

Storage : Under normal weather conditions store in a well-ventilated area.
Keep containers closed at all times when not in use. Check regularly for leaks. Remove drum bungs slowly to release any internal pressure.

SECTION 8 – EXPOSURE CONTROLS / PERSONALPROTECTION

Occupational Exposure Limits : No value assigned for this specific material by the Occupational Health and Safety Commission

Engineering Control Measures : Natural ventilation should be adequate under normal use conditions, Keep containers closed when not in use.

Personal Protective Equipment :

Eye: Not applicable

Hands: Not applicable

Other: Not applicable

Respirator: Use with adequate ventilation.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash contaminated clothing and other protective equipment before storage and reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	Opaque Yellow Liquid	pH (as is):	9 to 10
Melting Point:	0oC	Flash Point:	Not applicable
Boiling Point:	100°C (approximately)	Volatiles	Water only
Density:@ 25°C	1.01 grams/mL (approximately)	Flammable Limits:	Not applicable
Solubility:	Miscible	Perfume	Lemon

SECTION 10 – STABILITY AND REACTIVITY

Stability Incompatible with strong oxidising agents

Reactivity May react with strong oxidants.

SECTION 11 – TOXOLOGICAL INFORMATION

Health Effects

No adverse health effects expected if the material is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the material is mishandled are :

Acute Effects

Swallowing:	This product is irritating to the gastro-intestinal tract. Ingestion may result in nausea, abdominal irritation, pain and vomiting.
Eye:	An eye irritant.
Skin:	Not applicable
Inhaled:	Not normally a hazard due to the non-volatile nature of the product.

Chronic Effects

Principal routes of exposure are by accidental eye contact

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways.
Minor spills and residue may be hosed down with excess water to trade waste treatment plant
Major spills should be contained, absorbed by sand or earth and placed in sealed plastic or epoxy-lined drums for disposal

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority . Normally suitable for disposal at approved land waste site

SECTION 14 – TRANSPORT INFORMATION

Not classified as a Dangerous Good by the Criteria of the Australian Dangerous Good Code

Proper Shipping Name :	Not required	UN Number :	Not applicable
Dangerous Goods Class :	Not applicable	Subsidiary Risk :	Not applicable
Hazchem Code :	Not applicable	Packing Group :	Not applicable

SECTION 15 – REGULATORY INFORMATION

Classification Based upon information, not classified as hazardous according to criteria of Safe Work Australia

Poisons Schedule Not applicable

SECTION 16 – OTHER INFORMATION

Contact Points

Organisation	Location	Telephone	Ask For
Tasman Chemicals Pty Ltd	Braeside, Victoria, Australia	(03) 9587 6777	Technical Manager
Poisons Information Centre		13 1126	

MSDS are updated frequently. Please ensure that you have a current copy.

This MSDS summarises our best knowledge of the health and safety hazard information of the product; how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Tasman Chemicals Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions, a copy of which appears on all invoices. It is also available on request. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.

Safety Data Sheet

TASMAN CHEMICALS
"Tasman trusted products"

Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: RED DEVIL

Recommended use: Premium Car Wash

Supplier: Tasman Chemicals Pty Ltd
ACN 005 072 659
Street Address: 1-7 Bell Grove
Braeside, VIC, 3195
Australia
Telephone: **+613 9587-6777**
Facsimile: **+613 9587-5255**

Emergency Telephone number: **Australia 1800 334 556**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.

Signal Word
Warning

Hazard Classifications
Skin Corrosion/Irritation - Category 3
Serious Eye Damage/Irritation - Category 2A

Hazard Statement

H319	Causes serious eye irritation.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P280	Wear protective clothing, gloves and eye/face protection .

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Storage Precautionary Statement Not allocated

Disposal Precautionary Statement Not allocated

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
1,3-Propanediol, 2-bromo-2-nitro-	52-51-7	0 - 0.1 %
1-Butanol, 3-methoxy-3-methyl-	56539-66-3	1 - 10 %
Amides, coconut, N-(hydroxyethyl)	68140-00-1	1 - 10 %
Benzenesulfonic acid, dodecyl-, sodium salt	25155-30-0	1 - 10 %
D-limonene	5989-27-5	0.1 - 1 %
Triphosphoric acid, pentasodium salt	7758-29-4	1 - 10 %
Ingredients determined to be non-hazardous		Balance

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses.Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Aqueous Formulation
Base Units:	Litres
Form:	Clear Liquid
Colour:	Red
Odour:	D'Limonene

Solubility:	Miscible in water
Specific Gravity (20 °C):	1.10
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Melting Point/Range (°C):	100
Boiling Point/Range (°C):	0
pH:	7 - 9
Viscosity:	N App

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available. **Persistence and degradability:** No information available.

Bioaccumulative potential: No information available. **Mobility:** No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material/constituent(s) is covered by the following requirements:
• All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.