MATERIAL SAFETY DATA SHEET

Rygel Xtralife Pink Marking Foam

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Rygel Australia Pty Ltd
ACN: 106 839 007
Street Address: 103 Ordish Road, Dandenong South, Vic 3175
Telephone: (03) 9768 2803
Facsimile: (03) 9768 2804
Emergency telephone number: National Poisons Information Centre: Dial 13 11 26

Product name: Rygel Xtralife Pink Marking Foam
Product Use: A concentrated foam liquid for boom spray foam marking and fire fighting.

2. HAZARDS IDENTIFICATION

Classified as hazardous according to health criteria of NOHSC Australia.
Risk Phrases
R36 Irritating to eyes
R43 May cause sensitisation by skin contact
Safety Phrases
S1/2 Keep locked up and out of reach of children
S24 Avoid contact with skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37 Wear suitable protective clothing and gloves
S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S51 Use only in ventilated areas

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

UN No.	None allocated	**DG Class**	None allocated	**Subsidiary Risk(s)**	None allocated
Pkg Group	None allocated	**Hazchem Code**	None allocated	**EPG**	None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS NO.	Content
Sodium lauryl ether sulphate	68585-34-2	10 - 30%
Formaldehyde	50-00-0	0.2 – 1%
Non hazardous ingredients	not available	not available
Water	7732-18-5	remainder

4. FIRST AID MEASURES

Eye If in eyes, hod eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the PIC or a doctor, or for at least 15 minutes.
Inhalation If over exposure occurs leave exposure area mediately. If irritation persists, seek medical attention.
Skin Remove contaminated clothing and gentle flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before re-use.
Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia wide) or a doctor.
Advice to Doctor Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (formaldehyde, carbon oxides, hydrocarbons) when heated to decompostion.

Fire and Explosion Non flammable. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

Hazchem Code None allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), contact emergency services if appropriate. Wear splash proof goggles. PVC/rubber gloves, a Formaldehyde type A (organic vapour) respirator where inhalation risk exists), coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate potential ignition sources. Absorb spill with sand or similar collect and place in sealable containers for disposal. Spills are slippery. If contamination of sewers or waterways has occurred advise the local emergency services.

7. HANDLING AND STORAGE

Storage Store in cool, dry, well-ventilated area, removed from direct sunlight and out of reach of children, oxidising agents, alkalis, acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Handling Before use carefully read the product label. Use of safe work practices 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 aeas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Std	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Formaldehyde	NOHSC (Aus)	1.0	1.2	2.0	2.5

Biological Limits No biological limit allocated.

Engineering Controls Do not inhale vapours. Use in well ventilated areas. I poorly ventilated areas mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

Personal protection equipment Wear splash proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exits, wear a Formaldehyde type A (organic gasses and vapours) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: clear liquid
Solubility: soluble in water
Specific Gravity (15°C): 1.01 approx.
Flashpoint: >61^{o}C
pH (1% aq): 6 – 8

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage and handling.

Conditions to Avoid heat, sparks, open flames and here ignition sources.

Avoid	
Material to Avoid	Incompatible with oxidising agents (eg hypochlorites, peroxides) acids (eg nitric acid) and alkalis (eg hydroxides).
Decomposition	May evolve toxic gases (formaldehyde, carbon oxides, hydrocarbons) when heated to decomposition.
Hazardous Reactions	Polymerisation is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low to moderate toxicity – low irritant. Avoid eye or skin contact & vapour inhalation. Formaldehyde is a respiratory and skin sensitiser, and is classified as a confirmed human carcinogen (IARC Group 1) however due to low concentration of formaldehyde present an inhalation hazard is not anticipated. Those individuals with respiratory or skin disease are advised to avoid exposure Over exposure may result in liver and kidney damage.
Eye	Irritant. Exposure may result in lacrimation, irritation, pain and redness.
Inhalation	Irritant. Over exposure may result in irritation, coughing and at high level, nausea, vomiting and headache. Formaldehyde is a respiratory and skin sensitiser, and is classified as a confirmed human carcinogen (IARC Group 1) and respiratory sensitiser, however given the low concentration present an inhalation hazard is not anticipated. Chronic over exposure may result in liver and kidney damage.
Skin	Irritant. Prolonged contact may result in skin rash, drying and defatting of the skin which may result in dermatitis. Potential sensitising agent.
Ingestion	Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Aspiration may result in chemical pneumonitis and pulmonary oedema.
Toxicity Data	Diethylene glycol monobutyl ether (112-34-5) LD50 (ingestion): 2000mg/kg (guinea pig) D5 (skin): 2700 mg/kg (rabbit) Formaldehyde (50-00-0) LD50 (inhalation): 81 mg/g (rat) D5 (ingestion): 42 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment	Atmosphere: Vapour phase glycols are expected to degrade fairly rapidly by reaction with hydroxyl radicals (eg half-life 32 hours for propylene glycol) Removal from air by rainfall is possible. Water: Should degrade relatively rapidly via biodegradation. Soil: If released to soil, relatively rapid biodegradation should also occur. Leaching to ground water may occur.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
Legislation	Refer to State/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

15. REGULATORY INFORMATION

Poison Schedule	Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. **Rygel Australia Pty Ltd** will not be responsible for any damages that may result from reliance on the information contained herein.

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