

Material Safety Data Sheet

Touch 'n Seal U2-200FR Foam Kit - PART B

Issue Date March 2009

Status Issued by AUS

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Touch 'n Seal U2-200FR Foam Kit - PART B
Product Use Part B Liquid Component of Polyurethane Spray Foam System
Company Australian Urethane Systems Pty Limited
Address 25 Garling Road Kings Park NSW 2148
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Telex Number

Other Names

Name	Manf. Code
Not applicable	U2-200FR -PART B

Other Information

2. HAZARDS IDENTIFICATION

Classified as non hazardous according to criteria of NOHSC
 NON HAZARDOUS DANGEROUS GOODS

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	
	Polyether Polyol Mixture	Mixture	> 60%	w/w
	1,1,1,2 - Tetrafluoroethane	811 - 97 - 2	10 - < 30%	w/w
	Tris (2-chloro-1-methylethyl) phosphate	13674-84-5	10 - < 30 %	w/w
	Aromatic Amines	Mixture	< 1%	w/w

4. FIRST AID MEASURES

Inhalation Inhaling concentrated fluorocarbons from this product can cause unconsciousness, drowsiness, respiratory depression, rapid heartbeat and other symptoms. Persons with pre-existing heart disease may be at increased risk from exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Ingestion Immediately rinse mouth and drink plenty of water.
 Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

Skin Avoid contact with skin. Wash immediately with plenty of warm water and soap. Remove any contaminated clothing. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. If symptoms persist refer to medical attention.

Eye Irrigate with copious flowing water immediately and continuously for 15 minutes. May cause slight transient (temporary) eye irritation. If symptoms persist refer to medical attention.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor No specific antidote. Supportive care. Symptoms may appear later.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Foam, alcohol resistant foam, carbon dioxide and dry chemical. Keep containers cool with water spray
Hazards from Combustion Products	Produces oxides of carbon and nitrogen on combustion. May produce traces of hydrogen cyanide. May decompose in heat / fire releasing products of greater hazard.
Specific Precautions	Containers may explode when heated. Fire fighters to wear positive pressure self-contained breathing apparatus, safety glasses, boots, gloves and coveralls. Contain any run-off by diking to prevent entry into sewers, drains or water systems.
Specific Hazards	Carbon dioxide, carbon monoxide and potentially irritating gases. Ruptured containers may rocket.

6. ACCIDENTAL RELEASE MEASURES

Contain spill by diking, to prevent entry into sewers, drains or water systems.
If possible position container so that gas escapes rather than liquid.

Do not permit to contaminate waterways, sewers or drains

Avoid skin and eye contact. Wear gloves, safety glasses and coveralls. Avoid breathing vapours directly.

For small spills, < 20 litres, absorb spilled material with inert absorbent (sand, vermiculite etc.) and put into open top containers.

Transport to well-ventilated secure area (outside), and allow to stand for at least 48 hours to set into solid mass. Dispose of in solid waste.

Residual contamination from spills can be cleaned up with a 90% water, 5% industrial grade detergent solution.

7. HANDLING AND STORAGE

Handling	<p>Wear the protective equipment as set out below when handling this product. Do not eat, drink or smoke when using this product. This product is under pressure in the container. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.</p> <p>Wear industrial safety clothing, as per details below: Impervious plastic gloves - refer to AS 2161: Industrial Safety Gloves and Mittens Safety goggles or Face Mask - refer to AS 1336: Recommended practices for eye protection in the industrial environment AS/NZS 1337: Eye protectors for industrial application Respiratory Protection - refer to AS/NZS 1715: Selection, use and maintenance of respiratory protective devices and Coveralls.</p>
Storage	<p>Keep containers closed at all times. Store indoors at 15 to 25°C in original, unopened containers. Avoid storage temperatures above 50°C and below 10°C. Store away from direct sunlight or any source of ignition or heat.</p>

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	For 1,1,1,2 – Tetrafluoroethane – 811-97-2 Component TWA Limit 1000 ppm 4240 mg/m ³
Engineering Controls	Use only in well ventilated areas. Refer to MSDS for PART A Component.
Protective Equipment Personal	Wear industrial safety clothing, as per details below. Always wash hands before smoking, eating, drinking or using toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Impervious PVC gloves - refer to AS 2161: Industrial Safety Gloves and Mittens Safety goggles or Face Mask - refer to AS 1336: Recommended practices for eye protection in the industrial environment AS/NZS 1337: Eye protectors for industrial application Respiratory Protection - refer to AS/NZS 1715: Selection, use and maintenance of respiratory protective devices Clothing – refer to AS/NZS 2210: Occupational protective footwear. AS 2919: Industrial clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber liquid [Froths to an off white or yellowish color when released from container]
Odour	Mild odour
pH	Not applicable
Vapour Pressure	Not measured
Vapour Density [Air = 1]	> 1
Melting Point	< 0°C
Boiling Point	Not measured [– 26°C for 1,1,1,2 –Tetrafluoroethane propellant gas]
Solubility in Water	Soluble
Solubility in Organic Solvents	Soluble
Specific Gravity [Water = 1]	1.2 g/ml (25°C)
Flashpoint	Nil
Ignition Temperature	Not measured
Flammability	Combustible. Vapour of product does not form flammable mixtures with the air at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Hazardous polymerisation does not occur.
Materials to Avoid	Oxidizing agents / strong acids / strong bases / Isocyanates.
Hazards from Combustion Products	Carbon dioxide, carbon monoxide and potentially irritating gases.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No information for this Polyol Blend

Information for Component CAS # 13674-84-5 [10 - < 30% w/w]

Acute Oral LD50 [rat] > 1000 - 3000 mg/kg bw

Acute Inhalation LC50 [rat] 4 hrs > 4.6 mg/l

Acute Dermal LD50 [rat] > 5000 mg/kg bw

Inhalation

Inhaling concentrated fluorocarbons from this product can cause unconsciousness, drowsiness, respiratory depression, rapid heartbeat and other symptoms. Persons with pre-existing heart disease may be at increased risk from exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
for 1,1,1,2-Tetrafluoroethane LC₅₀ inhalation / rat /4 h – 1500 g/m³

Ingestion

No information for this Polyol Blend. See above data.

Skin

Prolonged or repeated exposure may cause skin irritation.

Chronic Effects

May cause localised frostbite to skin exposed to product as it is sprayed.

Cancer Information

No known carcinogenic chemicals in this product

Mutagenicity

This product does not contain any chemicals of known or suspected reproductive hazards.

12. ECOLOGICAL INFORMATION

Do not allow to escape into waters, wastewater or soil.

Movement & Partitioning

No specific data available for Polyol blend.

Degradation & Transportation

1,1,1,2-Tetrafluoroethane is a Non Ozone Depleting Hydro fluorocarbon.

Ecotoxicity

No specific data available for Polyol blend.

Information for Component CAS # 13674-84-5 [10 - < 30% w/w]

Fish, fresh water – Brachydanio rerio: 96 hrs / LC₅₀ 56.2 mg/l

Daphnia magna [Crustacea] 48 hrs / EC₅₀ 65 – 335 mg/l

13. DISPOSAL CONSIDERATIONS

Liquid Residues

If after use a small amount of product remains, this can be disposed of by reaction with U2-200FR PART A Component. [or if required refer to Australian Urethane Systems Pty Ltd for a suitable ISO product].

Mix on part by volume of U2-200FR PART B with one part by volume of U2-200FR - PART A Component .

To decant liquid material remaining in tank, remove hose from valve outlet and fully open the valve to allow all pressure to dissipate. Unscrew valve mechanism and drain liquid residue. Mix in an open top container in well ventilated area, in < 5 kg mix quantities.

Wear full protective clothing as set out in Section 8.

Allow 15 to 30 minutes cooling time between each mix to allow the reacted foam to cool before the next mix.

After reaction into a solid foam product, dispose of in solid waste.

For larger quantities refer to Australian Urethane Systems Pty Ltd.

Containers

To decant any remaining material remove hose from valve outlet and fully open the valve to allow all pressure to dissipate. Unscrew valve mechanism and drain liquid residue. Drain containers to remove ullage material. Rinse the container with a solution consisting of a mixture of 90% water, 5% industrial grade detergent.

Allow neutralising solution to react for 48 hours in unsealed containers in external area.

Absorb the rinse liquid into inert absorbent and hold in open containers to allow evaporation of water, then dispose of in solid waste.

Dispose of cleaned container appropriately.

14. TRANSPORT INFORMATION

UN Number	UN1956
Proper Shipping Name	Compressed gas, n.o.s. (1,1,1,2- Tetrafluoroethane, Nitrogen)
DG Class	2.2
Hazchem Code	NA
Packaging Group	III

15. REGULATORY INFORMATION

Poisons Schedule	Nil
Hazard Category	Nil

16. OTHER INFORMATION

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References

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END OF MSDS
