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Material Safety Data Sheet

Issue Date: August 2004

FLOWMAX

According to the criteria of WorkSafe Australia, this product is classified hazardous.

PRODUCT IDENTIFICATION

| | | | |
|-------------------------------|------------------------------|---------------------------|-----|
| <u>PRODUCT NAME:</u> | FLOWMAX Anti Rejection Fluid | | |
| <u>UN NO.:</u> | 1993 | <u>D.G. CLASS:</u> | 3 |
| <u>CAS NO.:</u> | 108-65-6 | <u>IMDG:</u> | 3.3 |
| <u>HAZCHEM:</u> | 3[Y] | <u>PACK. GRP.:</u> | III |
| <u>OTHER NAMES:</u> | Anti Rejection Fluid | | |
| <u>TRADENAMES:</u> | Pending | | |
| <u>MANUF. MANCODE:</u> | URECOAT | | |

PRODUCT USE: Product is used to prevent rejection when applying moisture-cure Polyurethane coatings.

INGREDIENTS

| <u>CHEMICAL ENTITY:</u> | <u>CAS No:</u> | <u>PROPORTION:</u> |
|--------------------------------|-----------------------|---------------------------|
| Methoxy Propyl Acetate | 108-65-6 | <50% |

PHYSICAL DESCRIPTION / PROPERTIES

- **APPEARANCE:** Water white liquid, with an ether-like odour.
 - **BOILING POINT (°C):** 146
 - **VAPOUR PRESSURE (38 C):** 0.5 kPa (approx @ 20°C)
 - **VOLATILE COMPONENT (% by volume):**
 - **SPECIFIC GRAVITY (H₂O = 1):** 0.93
 - **FLASH POINT (C Tag closed up):** 46 c (closed cup)
 - **FLAMMABILITY LIMITS (%):** 333 c
 - **REL. VAPOR DENSITY (Air = 1):** 4.6
 - **FORM:** Mixture
- OTHER PROPERTIES** Solubility: Soluble in most organic solvents, practically insoluble in water.

HEALTH EFFECTS

| | |
|---------------------------|---|
| Acute – Ingestion | No adverse effects expected, however large amounts may cause nausea and vomiting. |
| Acute – Eye | An eye irritant. |
| Acute – Skin | Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritation. |
| Acute – Inhalation | Inhalation of vapour can result in headaches, dizziness and possible nausea. |
| Chronic Effects | Observations of effects on animals include irritation to the upper respiratory tract, liver and kidney effects. |

FIRST AID

| | |
|--------------------------|---|
| Ingestion | Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place person's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical advice and/or call poisons information centre, Australia 131126. |
| Eye | Irrigate with copious quantities of water, ensure eyelids are held open. Seek medical advice if any pain or redness develops or persists. |
| Skin | Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove contaminated clothing and wash underlying skin. Launder clothing before re-use. |
| Inhalation | If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical assistance. |
| Other Information | Eye wash fountains and safety showers should be easily accessible. |

ADVICE TO DOCTOR

| | |
|-------------------------|------------------------|
| Advice to Doctor | Treat symptomatically. |
|-------------------------|------------------------|

PRECAUTIONS FOR USE

Exposure Limits

| <u>Name</u> | <u>Mg/m³ TWA</u> | <u>ppm TWA</u> |
|------------------------|-----------------------------|----------------|
| Methoxy Propyl Acetate | 550 | 100 |

Other Exposure Info. Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms: Time Weighted Average (TWA), means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week; peak limitation; or short term exposure limit (STEL).

Engineering Controls Ensure ventilation is adequate to maintain air concentrations below exposure standards. Keep containers closed when not in use. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected.

PERSONAL PROTECTION

Protective Equipment Avoid eye and skin contact. Avoid inhaling the vapour or mist. Follow normal industrial safety practices. The use of protective clothing and equipment depends on the degree of exposure. The following personal protective equipment should be used:

Respiratory Protection Where concentrations in air exceed recommended exposure limits, or work practice or other means of exposure reduction are not adequate, use respirator fitted with filters that conform with AS 1716.

Eye Protection Use safety glasses, chemical goggles or face shield as appropriate, refer AS 1337.

Hand Protection Use chemical resistant rubber gloves, refer AS 2161.

Protective Clothing Use long sleeved chemical resistant overalls, fastened at neck and wrists, refer AS 3765.

Footwear Wear chemically impervious safety shoes/boots, refer AS 2210.

Work/Hygienic Practices Ensure high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking etc.

FLAMMABILITY

Fire Hazards Flammable liquid. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area.
Do NOT smoke.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Store and transport in accordance with AS 1940-1993 and local and state regulations. Store in a cool well ventilated area. Store away from sources of heat or ignition. Store away from oxidising agents and foodstuffs. Keep containers closed when not in use. Check regularly for leaks. Not to be loaded with explosives (Class 1), flammable gasses (Class 2.1) in bulk, poisonous gasses (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5), and radioactive substances (Class 7). However, exemptions may apply. This material is a Scheduled Poison (S6) and must be stored, maintained and used in accordance with the relevant regulations.

Spills and Disposals

Spills and Leaks

SMALL SPILLS: Extinguish or remove all potential sources of ignition. Increase ventilation. Avoid contact with liquid. Absorb with an inert non-combustible material such as vermiculite or sand. Wear full protective clothing and goggles. Prevent run off into drains or waterways. Collect and place into drums with non-sparking tools for recovery or disposal.

LARGE SPILLS: Inform Authorities if a major spillage occurs. Evacuate all non-emergency personnel from area. Keep public away. Warn occupants downwind. Dike area far ahead of liquid and recover. Extinguish all ignition sources. Prevent entry into drainage systems, rivers etc. Collect with absorbent material such as sand, earth or vermiculate. Ensure waste disposal conforms Local, State and Federal regulations.

Fire/Explosion Hazard

Fire/Explos. Hazards Flammable liquid. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion. Flashback along vapour trail may occur.

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical powder. Use water fog. Use water spray. Avoid spreading liquid and fire by water flooding.

Hazardous Reaction STABILITY: Stable under normal conditions.
MATERIALS TO AVOID: Strong oxidising agents.
CONDITIONS TO AVOID: Sparks, heat, sources of ignition.
POLYMERIZATION: Will not occur.

Hazchem Code 3[Y]

OTHER INFORMATION

Packing & Labelling Packaging Group 3.
4 Litre drums containing 3.7Kg,
1 Litre drums containing 0.93 Kg.

Shelf Life This product is best if used within 24 months from manufacture (refer to batch number), when stored in unopened containers under normal conditions of temperature and humidity.

CONTACT POINT

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End of MSDS