



MATERIAL SAFETY DATA SHEET

POUR IN FOAM HARDENER

Effective Date : March 2012

Page 1 of 4

Norski Holdings urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interests of safety, you should, (1) notify your employees, agents, and contractors, of the information on this sheet; (2) furnish a copy to each of your customers for the product; (3) request your customers to inform their employees and customers as well.

I. Identification

SUPPLIER: Norski Holdings Ltd, 10 Northpoint Street, Plimmerton, 5024 New Zealand

PRODUCT NAME: Pour In Foam Hardener

RECOMMENDED USE: Component B of a Polyurethane Foam System.

II. Hazard Classification

NEW ZEALAND: Not classified as non hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO CLASSIFICATION: Nil.

HSNO APPROVAL CODE: HSROO2670

III. Composition/Information on Ingredients

Ingredients

Name	CAS	%
Hydroxyl Terminated (Oxyalkylene) Polyether	-	60-90
Tertiary Amine bearing Compounds	-	<5
1, 1-dichloro-1-fluoroethane	717-00-6	20-40

IV. First Aid Measures

EYES: Flush with clean, luke warm water at low pressure for at least 15 minutes, occasionally lifting the eyelids. Consult a physician immediately.

SKIN: remove contaminated clothing, wash exposed area with warm soapy water thoroughly. Contaminated clothing should be properly washed.

INHALATION: Remove victim from area of the exposure to a safe area.

INGESTION: Induce vomiting. Never give anything to drink to an unconscious person or induce vomiting in an unconscious person.

ADVICE TO DOCTOR: Treat symptomatically.

EMERGENCY: 0800 POISON (764 766)

V. Fire-fighting Measures

EXTINGUISHING MEDIA: Dry chemical extinguishers such as monoammonium phosphate, potassium chloride, additionally carbon dioxide, high expansion chemical foam, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus in addition to normal protective turnout clothing.

While Norski Holdings Limited believes that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the test results, this data is not to be taken as a warranty or representation, for which Norski Holdings Limited assumes legal responsibility. It is offered solely for the recipients consideration, investigation and verification. Any use of this data, and information, must be determined by the user, to be in accordance with applicable local laws and regulations.



MATERIAL SAFETY DATA SHEET

POUR IN FOAM HARDENER

Effective Date : March 2012

Page 2 of 4

Norski Holdings urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interests of safety, you should, (1) notify your employees, agents, and contractors, of the information on this sheet; (2) furnish a copy to each of your customers for the product; (3) request your customers to inform their employees and customers as well.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from oxidising agents. Do not store wastes in polystyrene, polymethacrylate or ABS.

VI. Accidental Release Measures

SPILLS AND DISPOSAL:

Steps to be taken in case material is released or spilled: Contain the spilled material and then cover with a loose, absorbent material such as oil-dry, sawdust, Vermiculite or Fuller's Earth. Shovel waste material into the proper waste containers. Wash the contaminated areas down with hot, soapy water thoroughly. Ventilate area to remove vapours.

Waste Disposal Method: Waste material may be incinerated or disposed of under local regulations controlling environment protection.

VII. Handling and Storage

SPECIAL PRECAUTIONS AND STORAGE DATA:

Special Sensitivity (Heat, Light, Moisture): This product is hygroscopic. Containers should be tightly sealed to prevent moisture contamination. Do not expose to high temperatures for any length of time.

STORAGE AND TRANSPORT:

Storage Temperature (min/max): 18°C – 30°C.

Average Shelf Life: Six months.

VIII. Exposure Controls/Personal Protection

EXPOSURE STANDARDS:

Threshold Limit Value – Time Weighted Average (TLV-TWA)

1, 1-dichloro-1-fluoroethane (HCFC 141b) 500ppm

Threshold Limit Value – Short Term Exposure Limit (TLV-STEL): Not established

Threshold Limit Value – Ceiling (TLV-C): Not established.

ENGINEERING CONTROLS:

Ventilation: Natural or mechanical. Local exhaust will keep TLV below minimum in most case. Spills or other emergencies may require more forceful ventilation means.

SKIN AND EYE PROTECTION: Chemical resistant gloves such as natural rubber, or poly-vinyl alcohol. Cover as much of the exposed skin as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum. Liquid chemical goggles or full-face shield. No contact lenses should be worn.

RESPIRATORY PROTECTION: This product has demonstrated no observable effects at room temperatures, however it is highly recommended that an air purifying respirator with organic filter cartridges be worn. In addition, in any spray application, a supplied air source must be provided.

OTHER: Safety showers and eye wash stations should be provided in all work areas. All employees should be properly trained.

FLAMMABILITY LIMITS: Not established.

While Norski Holdings Limited believes that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the test results, this data is not to be taken as a warranty or representation, for which Norski Holdings Limited assumes legal responsibility. It is offered solely for the recipients consideration, investigation and verification. Any use of this data, and information, must be determined by the user, to be in accordance with applicable local laws and regulations.



MATERIAL SAFETY DATA SHEET

POUR IN FOAM HARDENER

Effective Date : March 2012

Page 3 of 4

Norski Holdings urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interests of safety, you should, (1) notify your employees, agents, and contractors, of the information on this sheet; (2) furnish a copy to each of your customers for the product; (3) request your customers to inform their employees and customers as well.

IX. Physical and Chemical Properties

APPEARANCE: Viscous amber liquid.

ODOUR: Slight ammonia odour.

BOILING POINT: 32°C with evolution of HCFC then decomposes.

VAPOUR PRESSURE: Not established.

SPECIFIC GRAVITY: 1.13

FLASH POINT: 120°C

% VOLATILE BY VOLUME: 15-25

FLAMMABILITY: Combustible liquid.

FLAMMABLE LIMITS: Not established.

SOLUBILITY IN WATER: Slightly soluble.

X. Stability and Reactivity

STABILITY: Stable under normal conditions.

POLYMERISATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with isocyanates and other substances that will react with Hydroxyl groups.

HAZARDOUS DECOMPOSITION PRODUCTS: Aliphatic fragments, CO, NH₃, CO₂.

XI. Toxicological Information

HEALTH EFFECTS:

ACUTE:

SKIN AND EYES: This product contains amine catalyst and will cause irritation to the skin after prolonged contact. Some individuals may be more sensitive to exposure. This product contains Freon which can cause dermatitis. This product may cause eye irritation. Protective goggles should be worn.

INGESTION: This is not considered a common occupational route of exposure, and no observable effects have been demonstrated.

INHALED: At room temperatures, vapour inhalation is not considered hazardous. This product contains Freon, at elevated temperatures, Freon gas may escape. Vapours may cause dizziness, tremors, cardiac arrhythmias and cardiac arrest.

CHRONIC:

HUMAN EFFECTS OF OVER EXPOSURE: At room temperatures, vapour inhalation is not considered hazardous. This product contains Freon, at elevated temperatures, Freon gas may escape. Vapours may cause dizziness, tremors, cardiac arrhythmias and cardiac arrest.

While Norski Holdings Limited believes that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the test results, this data is not to be taken as a warranty or representation, for which Norski Holdings Limited assumes legal responsibility. It is offered solely for the recipients consideration, investigation and verification. Any use of this data, and information, must be determined by the user, to be in accordance with applicable local laws and regulations.



MATERIAL SAFETY DATA SHEET

POUR IN FOAM HARDENER

Effective Date : March 2012

Page 4 of 4

Norski Holdings urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interests of safety, you should, (1) notify your employees, agents, and contractors, of the information on this sheet; (2) furnish a copy to each of your customers for the product; (3) request your customers to inform their employees and customers as well.

XII. Ecological Information

Data not available.

XIII. Disposal Considerations

DISPOSAL STATEMENT:

- Recycle wherever possible.
- Bury residue in an authorised landfill.
- Recycle containers if possible. If not possible, dispose of in an authorised landfill.
- Containers may still present a chemical hazard/danger when empty.
- If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture container, to prevent re-use, and bury at an authorised landfill.
- Contact appropriate Waste Management Company for guidance and disposal options in your area. Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

XIV. Transport Information

UN NUMBER: Not applicable.

HAZCHEM CODE: Not applicable.

DANGEROUS GOODS CLASS: Not applicable.

PACKAGING GROUP: Not applicable.

PROPER SHIPPING NAME: Not applicable.

TOXIC SUBSTANCES SCHEDULE: Not applicable.

XV. Regulatory Information

HSNO APPROVAL NUMBER: HSROO2670

HAZARD CLASSIFICATION: Nil.

While Norski Holdings Limited believes that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the test results, this data is not to be taken as a warranty or representation, for which Norski Holdings Limited assumes legal responsibility. It is offered solely for the recipient's consideration, investigation and verification. Any use of this data, and information, must be determined by the user, to be in accordance with applicable local laws and regulations.