

NORSKI HOLDINGS LTD

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME:

**EPOXY
DOMING
RESIN
HARDENER**

Supplier: Norski Holdings Ltd
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Riverlands
Blenheim
New Zealand
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HMIS HAZARD RATING INDEX

3 Health
1 Flammability
0 Reactivity
H Personal Protection

SECTION 1 – PRODUCT INFORMATION

Chemical Trade name / Synonyms None

Chemical Family Contains: Polyoxypropylenamines

DOT Hazard Classification Corrosive Liquid, n.o.s. UN 1760

Formula/Molecular Weight Mixture

Hazchem 2R

SECTION 2 – HAZARDOUS INGREDIENTS

Material or Component	CAS Number	Contents %	ACGIH TLV	OSHA (PEL)	STEL
Poly(oxymethyl-1,2ethanediyl) Alpha-(2-aminomethylethyl) Omega-(2-aminomethylethyl)	9046100	50%	None est.	N/A	N/A
Isophorone Diamine	2855-13-2	15%	None est.	N/A	N/A
Triethylenetetramine	112-24-3	10%	None est.	N/A	N/A
Phenol (hydroxybenzene)	108-95-2	<5%	5 ppm	5 ppm	10 ppm

SECTION 3 – PHYSICAL DATA

Boiling Point: >90C	Melting Point: N/A	Solubility / Water: Appreciable
% Volatile: Nil	Specific Gravity: 0.97	VAp.Pr <1mm Hg 20C
Evaporation Rat: Slower than Butyl Acetate	Vap. Density: Heavier than air	pH: No info.
Freezing Point: No info	Viscosity: 100cps (25C)	Critical Tem: No info
Appearance and Odour: Pale coloured liquid with amine odour.		

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 124 C (PMCC)	Auto-ignition temp. >300C	
Flammable limits in air: (%)	Lower: n/d	Upper: n/d
Extinguishing Media:	Foam, CO2, Dry Chemical.	
Special Fire Fighting Procedures:	Do not direct a solid stream of water into hot, burning pools, as this may cause frothing and increasing fire intensity. Wear self-contained breathing apparatus and complete personal protective equipment.	
Unusual fire and explosion hazards:	Closed containers may rupture (due to build-up of pressure) if exposed to extreme heat. Nitrogen oxides may form.	

SECTION 5 – REACTIVITY DATA

Product Corrosive: Yes to skin.	Stability: Stable.
Hazardous Polymerisation:	Will not occur by itself, but a mass of more than 500gm of product plus an epoxy resin will cause irreversible polymerisation and significant heat build-up.
Conditions to Avoid:	Excessive heating over long periods.
Materials to Avoid:	Strong oxidants, acids, halogenated organic compounds such as methylene chloride. See Section 10. Do not mix with nitrites which may form carcinogenic nitrosamines.
Hazardous decomposition products:	The by-products expected in incomplete pyrolysis or combustion are mainly Carbon dioxide, Carbon monoxide and nitrogen oxides. Toxic fumes.

SECTION 6 – HEALTH HAZARD DATA

Ingestion:	Moderately toxic. Will cause severe irritation or burns of the mouth, throat, oesophagus and stomach. There may be swelling or ulceration with pain in the mouth and throat, discomfort or pain in the chest and abdomen, nausea, vomiting, diarrhoea, dizziness, drowsiness, faintness, thirst, weakness, circulatory collapse, and coma. Aspiration into lungs may occur during vomiting resulting in lung injury.
Inhalation:	Excessive exposure may cause irritation to upper respiratory tract.
Eye:	May cause severe irritation with corneal injury.
Skin Contact:	Corrosive. Expected to cause severe skin damage with burns and blistering. May cause allergic skin response.
Chronic effects of over-exposure:	Possible irritation and sensitisation.
Other:	Referral to a physician is recommended if there is any question about the seriousness of an injury.

SECTION 7 – EMERGENCY AND FIRST AID PROCEDURES

Ingestion:	Do not induce vomiting. Give large amounts of water or milk.
Inhalation:	Remove to fresh air if effects occur. If not breathing apply respiration. Contact a physician.
Eye Contact:	Immediately flush eye with water for 15 minutes. Contact a physician.
Skin:	Wash off in flowing water or shower. Consult a physician. Decontaminate clothing and accessories before re-use.
Notes to Physician:	Hazards from this material are mainly due to its moderately severe corrosive effects on skin and mucosal surfaces. No specific antidote. Treatment should be directed at control of symptoms and the clinical condition of the patient.

SECTION 8 – SPILLS, LEAKS, HANDLING AND STORAGE PROCEDURES

Spill and Leak Procedures:	Wear suitable protective clothing. Avoid contact with material. Soak up in absorbent material or scrape up. Residual can be removed with using water as solvent.
Waste Disposal Method:	Disposer must comply with federal, state and local laws.
Handling and Storage Methods:	Store in tight containers to prevent moisture absorption and loss of volatiles.

SECTION 9 – SPECIAL PROTECTION INFORMATION

Ventilation Requirements:	Good mechanical or local in accordance with ACGHI recommendations.
Respiratory Protection:	Use NIOSH/MSHA approved respirators whenever exposure to vapour or mist is likely. Use self-contained breathing apparatus in high concentration.
Protective Clothing:	Clean, body covering clothing, neoprene or PVC gloves.
Eye Protection:	Splash-proof safety glasses.
Additional Protective Measures:	Practice good caution and personal cleanliness to avoid skin contact. Avoid breathing vapours of heated materials.

SECTION 10 – SPECIAL PRECAUTIONS

Avoid contact with eyes or prolonged contact with skin.

Avoid repeated or prolonged inhalation of vapours.

Do not let the hardener contact acids, oxidising materials such as methylene chloride – it can react violently. Whilst reactions with these chemicals may be slow initially, external heating or self-heating can result in rapid temperature increases and serious hazards. If such reactions take place in a closed waste drum with no pressure release, the drum could expand and rupture.

SECTION 11 – TRANSPORTATION INFORMATION

DOT N.O.S. Description:	(Di(aminopropyl)ether of Diethylene Glycol)
DOT Hazard Class:	Corrosive Liquid, N.O.S. UN1760
DOT HM 181 Description:	Corrosive Liquid (Di(aminopropyl) Ether of Diethylene Glycol), 8, PGIII.

SECTION 12 – ADDITIONAL INFORMATION

None

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