

# SAFETY DATA SHEET

Issue Date May 2018

## Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product identifier**

Product Name HI STRENGTH GLUE

Description BASE

Other means of identification

UN Number 3082

**Recommended use of the chemical and restrictions on use**

**Construction of fibre reinforced equipment and fittings. Suitable for construction of recreational water craft. Corrosion resistant flooring and coatings.**

**Details of the supplier of the safety data sheet**

**Manufacturer**

Norski Holdings Ltd  
10 Northpoint Street  
Plimmerton  
Wellington 5247  
New Zealand

For further information, please contact

**Contact Point**

Norski Holdings Ltd  
+64 (04) 233 6184

**E-mail address**

Enquiries@norski.co.nz

Emergency telephone number

**Emergency Telephone**

0800 500 341

National Poisons Centre

0800 764 766 (0800 POISON)

Fire Emergency New Zealand

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## Section 2: HAZARD(S) IDENTIFICATION

**Regulatory information**

**This product is subject to the Hazardous Substances and New Organisms Act 1996 and the Health and Safety at Work (Hazardous Substances) Regulations 2017. This product is a Dangerous Good under the New Zealand land Transport Standard NZS 5433.**

**Dangerous Goods Class 9 Packing Group III**

**EPA New Zealand HSNO Approval Code or Group Standard**

**Surface Coatings and Colourants (Subsidiary**

**Hazard) Group Standard 2017 - HSR002670**

**Label elements**

HSNO Classification

- 6.1D Acutely toxic (oral, dermal, inhalation)
- 6.3A Irritating to the skin
- 6.4A Irritating to the eyes
- 6.5B Contact sensitisers
- 9.1B Very ecotoxic in the aquatic environment

GHS Classification

Acute toxicity: Skin	Category 4
Acute toxicity: Oral	Category 4
Acute toxicity: Inhalation	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage /eye irritation	Category 2A
Skin sensitization	Category 1
Aquatic toxicity (Chronic)	Category 2

Hazard Symbols



**Signal Word: WARNING**

- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H411 Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

- P261 Do not breathe mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment (see First Aid Measures below)
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage

Storage

No storage statements

Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

Chemical Name	CAS no.	Weight %
Bisphenol A/ epichlorohydrin resin	25085-99-8	45-65
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	5-25
Benzyl alcohol	100-51-6	5-25
Other ingredients determined not to be hazardous		To 100

### Section 4: FIRST AID MEASURES

Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
Skin Contact	Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.
Eye contact	Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Give plenty of water to drink.
Treatment	Treat symptomatically

### Section 5: FIREFIGHTING MEASURES

Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide.
Extinguishing Media to Avoid	Do not use direct water stream. May spread fire
Hazardous Combustion Products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics. Carbon monoxide. Carbon dioxide.
Unusual Fire and Explosion Hazards	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.
Fire Fighting Procedures	Clear fire area of all non-emergency personnel. Isolate fire and deny unnecessary entry. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.
Fire-fighting equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location

## Section 6: ACCIDENTAL RELEASE MEASURES

General Precautions	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.
Personal Precautions	Use cautious judgement when cleaning up spills. Shut off leaks, if possible without personal risk.
Environmental Precautions	Dike and Contain. Contain run-off and dispose of properly. Remove contaminated soil to remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.
Clean-up Methods (small)	Soak up with an absorbent material such as clay, sand, sawdust or Zorbball. Place in non-leaking container. Seal tightly for proper disposal.
Clean-up Methods (large)	Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent material such as clay, sand, sawdust or Zorbball. Place in non-leaking container. Seal tightly for proper disposal. Flush are with water to remove trace residue.

## Section 7: HANDLING AND STORAGE

Handling	Keep out of reach of children. Put on appropriate PPE (see section 8). Causes skin irritation and sensitivity. Avoid contact with skin, eyes and clothing. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Do not breathe vapour or mist. Clean up spilled material immediately, and wash clothes, equipment and work area after use.
Storage	Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use.

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace Exposure Standards    None established

Engineering    Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other controls engineering controls to keep worker exposure to airborne contaminants as low as possible and/or below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Personal Respiratory - Use a properly fitted, air-purifying or air-fed respirator complying with an approved Protection standard if a risk assessment indicates this is necessary.

Skin - Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye - Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand - Recommended: polyvinyl alcohol (PVA), Butyl rubber, EVAL, Neoprene.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gel
Colour	Cloudy
Odour	Sweet odour
pH	~ 5
Vapour pressure	82 Pa (4.5 mm Hg)
Vapour density	>1 [Air = 1]
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (water)	Not Miscible
Specific Gravity/Density	1.16 g/cm <sup>3</sup> [25°C (77°F)]
Flash Point	251°C (closed cup)
Flammable Limits	LFL: Not available UFL: Not available
Auto-ignition	>300°C

## Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid temperatures above 300°C. Potentially violent decomposition can occur, causing gas generation and pressure increases in closed systems.
Materials to avoid	Reactive or incompatible with the following materials: <i>oxidizing materials</i> Slightly reactive or incompatible with the following materials: <i>acids, amines, anhydrides, chloroform, chloroform acid.</i>
Hazardous Decomposition Products	Decomposition products may include the following materials: carbon oxides, phenolics and water.

## Section 11: TOXICOLOGICAL INFORMATION

### Potential Health effects

Inhalation	Vapours are unlikely due to physical properties.
Ingestion	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
Skin	Prolonged or repeated contact may cause skin irritation.
Eye	May cause eye irritation. Corneal injury is unlikely.

### Acute Health Effects

(Bisphenol A/ epichlorohydrin resin)

Test	Species	Result	Exposure
LD50 Oral	Rat	>5000mg/kg	-
LD50 Dermal	Rabbit	20,000mg/kg	-

**Systemic Effects** Except for Skin sensitization, repeated exposure is not likely to cause significant adverse effects.

**Carcinogenicity** IARC has classified DGEBA as non-carcinogenic.

**Mutagenicity** animal studies, did not cause birth defects or other adverse effects on the foetus when pregnant rabbits, did not interfere with reproduction. Animal genetic toxicity studies were negative.

## Section 12: ECOLOGICAL INFORMATION

(epichlorohydrin resin)

Ecotoxicity	Material is moderately toxic to aquatic organisms on an acute basis		
	Species	Period	Result
LC50	Fathead Minnow	96 h	3.1 mg/l
EC50	water flea	48 h	1.4 - 1.7 mg/l
IC50	Bacteria	18 h	> 42.6 mg/l

**Degradability** Under OECD guidelines this material cannot be considered as readily degradable.

**Bioaccumulation** Moderate Log  $P_{ow}$  = 3 - 5

**HSNO Classification** 9.1B Very ecotoxic in the aquatic environment

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal**

*DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.* All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. *FOR UNUSED AND UNCONTAMINATED PRODUCT,* the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other destruction device.

## Section 14: TRANSPORT INFORMATION

Road, Rail, Sea and Air

Transport

UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin mixture)
DG Class	9
Packing Group	III
HAZCHEM code	3Z
IMO/IMDG class	9
ICAO/IATA class	9
EMS code	F - A, S - F
Marine pollutant	Yes

## Section 15: REGULATORY INFORMATION

EPA New Zealand HSNO approval code or group standard

**Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 - HSR002670**

### **Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

#### **New Zealand.**

**10,000 kg of Norstik Hi Strength Glue Base requires Signage under Regulation 2.5(1) of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.1D Classification.**

**1000 kg of Norstik Hi Strength Glue Base requires an Emergency Plan under Regulation 5.6 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.1D and 6.5B Classifications.**

**The Person Conducting a Business Undertaking must ensure that the requirements of Regulations 15-20 of the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 relating to Personal Protective Equipment are met with regards to all those who work with the Epoxy Mortar Hardener.**

**The Person Conducting a Business Undertaking must also comply with the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 as they cover Risk Management, First Aid Equipment including Eye Wash, Training, Emergency Management, Health and Exposure Monitoring and provision of Information for Norstik Hi Strength Glue Base.**

**After June 2018 the Person Conducting a Business Undertaking must ensure that the Training Provisions of Regulation 4.5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 are met in relation to Norstik Hi Strength Glue Base.**

The Group Standard applying Disposal, Labelling, Packaging and Safety Data Sheet requirements to this product and HSNO Approval Number is the Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR 002670. Prior to 1 December 2017 all Site and Storage Controls relevant to Norstik Hi Strength Glue Base were contained in this Group Standard.





## Section 16: ANY OTHER RELEVANT INFORMATION

Revision Date 21 May 2018

Revision Note            New Format

Key or legend to abbreviations and acronyms used in the data safety sheet

### Disclaimer

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**End of Safety Data Sheet**