

SAFETY DATA SHEET

Issue Date August 2017

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name NORSKI HI STRENGTH GLUE HARDENER

Description

Other means of identification

UN Number 2735

Proper Shipping name:

Polyamines, liquid, corrosive, n.o.s. (mixture contains Polyamide resin (aliphatic amines & derivatives))

Recommended 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 NZ

111`

Section 2: HAZARD(S) IDENTIFICATION

Regulatory information

EPA New Zealand HSNO Approval Code or Group Standard

**Surface Coatings and Colourants Toxic 6.1 Corrosive
Group Standard 2017 - HSR002667**

Dangerous Goods Class : Class 8 Packing Group III

HSNO Classifications

S

6.1C	(dermal) Acutely toxic (oral) Acutely toxic
6.1C	(inhalation) Acutely Toxic
6.5B	(contact) Contact sensitisers
6.8B	Suspected human reproductive or developmental toxicants
6.9A	(oral) Toxic to human target organs or systems
6.9B	(dermal) Harmful to human target organs or systems
8.2C	Corrosive to dermal tissue
8.3A	Corrosive to ocular tissue
9.1B	(algal) Very ecotoxic in the aquatic environment
9.1C	(crustacean) Harmful in the aquatic environment
9.3B	Ecotoxic to terrestrial vertebrates

Hazard Symbols



Label elements

Signal Word: **DANGER**

Acute Toxicity: Oral Category 3

Acute Toxicity: Skin Category 3

Acute Toxicity Inhalation Category 3

Skin sensitisation Category 1

Reproductive toxicity Category 2

Specific Target Organ Systemic Toxicity (Single Exposure) Category 1

Skin corrosion/irritation Category 1C

Serious eye damage/eye irritation Category 1

Aquatic toxicity (Chronic): Category 2

Hazard Statements

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child
- H370 and H372 Causes damage to organs through single and prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects.
- H432 Toxic to terrestrial vertebrates.

Precautionary statements

Prevention

- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing vapours
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- 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 and face protection

Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water /shower
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P361 Remove/Take off immediately all contaminated clothing.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

**Storage**

P405 Store locked up

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 %
Polyamide resin (aliphatic amines & derivatives)	103758-98-1	30-60
Aminoethyl) piperazine, 1-(2-, (AEP)	140-31-8	10-30
4-Nonylphenol, branched	84852-15-3	10-30
Other ingredients determined not to be hazardous		To 100

Section 4: FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Skin Contact	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Ensure contaminated clothing is washed before re-use or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Treatment	Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

Extinguishing Media Water spray, dry chemical, foam, carbon dioxide.

Extinguishing Media to Avoid Do not use water jet.

Hazardous Under Fire Conditions

This product may emit toxic and/or irritating fumes and gases including Combustion carbon monoxide and carbon dioxide products

Fire-fighting Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive equipment pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

HAZCHEM 2X

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency

Procedure Wear appropriate personal protective equipment and clothing to prevent exposure.

Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Section 7: HANDLING AND STORAGE

Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers dry powder available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace Exposure Standards	No Exposure Limit Established
Engineering controls	Provide sufficient ventilation to keep airborne levels below the exposure limits or as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required.
Personal Protection	Respiratory - If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used

Skin - Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Eye - Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Hand - Wear gloves of impervious material such as laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gel
Colour	Amber
Odour	Sweet odour
pH	Not available
Vapour pressure	Not available
Vapour density	Not available
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (water)	Insoluble
Specific Gravity/Density	1.16g/cm ³ [25°C (77°F)]



Flash Point	>150°C (closed cup)
Flammable Limits	LFL: Not available UFL: Not available
Auto-ignition	Not available

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to avoid	Heat, open flames and other sources of ignition
Materials to avoid	Strong oxidising agents, acids and bases. Halogens, epoxy ester resin
Hazardous	Thermal decomposition may result in the release of toxic and/or irritating fumes including
Decomposition Products	carbon monoxide, oxides of nitrogen and carbon dioxide

Section 11: TOXICOLOGICAL INFORMATION

Potential Health effects

(Polyamide resin (aliphatic amines & derivatives))
No data is available for this material

Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting

Skin Irritating to skin. Skin contact will cause redness, itching and swelling. May cause an allergic skin reaction.

Eye Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness

Acute Health Effects Not expected to be a respiratory sensitiser.

Systemic Effects

May cause an allergic skin reaction.
Not considered to be a carcinogenic hazard.

Carcinogenicity

Not considered to be a mutagenic hazard.

Mutagenicity

Reproductive Toxicity Not considered to be toxic to reproduction.

Section 12: ECOLOGICAL INFORMATION

(Polyamide resin (aliphatic amines & derivatives))

Ecotoxicity	No ecological data available for this material.
Degradability	Not available
Bioaccumulation	Not available
HSNO Classification	(algal) Very ecotoxic in the aquatic environment
	(crustacean) Harmful in the aquatic environment
	9.1C environment
	9.3B Ecotoxic to terrestrial vertebrates

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	2735
Proper Shipping name	Polyamines, liquid, corrosive, n.o.s. (mixture contains Polyamide resin (aliphatic amines & derivatives))
DG Class	8
Packing Group	III
HAZCHEM code	2X
IMO/IMDG class	8
ICAO/IATA class	8
EMS code	F – A, S – B
Marine pollutant	Yes



Section 15: REGULATORY INFORMATION

EPA New Zealand HSNO approval code or group standard

Surface Coatings and Colourants Toxic 6.1 Corrosive.
Group Standard 2017 - HSR002677

1000 kg of Norstik Hi Strength Glue Hardener requires Signage under Regulation 2.5(1) of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.1C and 8.2C Classifications.

100 kg of Norstik Hi Strength Glue Hardener requires an Emergency Response Plan under Regulation 5.6 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.1C 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 Hi Strength Glue 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 Toxic 6.1 Corrosive

Group Standard 2017 HSR002677. -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

Revision Note New Format

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



Disclaimer

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation, and verification. Before using any product, read its label.

End of Safety Data Sheet