



SAFETY DATA SHEET

NORSTIK EPOXY GLUE BASE

Issue Date March 2018

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY
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Product identifier

Product Name NORSTIK EPOXY GLUE BASE PART A

Description Light yellow liquid

Other means of identification

UN Number 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS CONTAINS (LIQUID EPOXY RESIN)

Recommended use of the chemical and restrictions on use Use with good ventilation at all times.
Recommended Use Glue

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

Section 2: HAZARD(S) IDENTIFICATION
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Regulatory information

EPA New Zealand HSNO Approval code or group standard

HSNO Approval Number: HSR003180

Dangerous Goods Class for Transport: 9 Packing Group III

GHS Classification and HSNO Classification

HSNO	Hazard Class	Category
6.3A(Causes skin irritation)	SKIN CORROSION/IRRITATION	Category 2
6.4A(Causes eye irritation)	SERIOUS EYE DAMAGE/ EYE IRRITATION	Category 2A
6.5B(May cause an allergic skin reaction)	SKIN SENSITISATION	Category 1
6.9B(May cause damage to lungs on repeated exposure)	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation]	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED [skin,])	Category 1
	AQUATIC TOXICITY (ACUTE)	Category 2
9.1B(Toxic to aquatic life with long lasting effects)	AQUATIC TOXICITY (CHRONIC)	Category 2

Symbols



Label Elements

Signal Word

Danger

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

H335 - May cause respiratory irritation

H372 - Causes damage to organs through prolonged or repeated exposure: skin,

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Wear protective gloves. Wear eye/face protection. Use only outdoors or in well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be



allowed out of the workplace.

Response	<p>Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Take off contaminated clothing and wash before re-use. Wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Wash hands after handling. Collect spillage.</p>
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance/mixture : Substance

<u>Hazardous ingredient name</u>	<u>CAS number</u>	<u>WT %</u>
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	100

Section 4: FIRST AID MEASURES

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. If it is suspected that fumes are still

present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first aid personnel	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: FIREFIGHTING MEASURES

Flammability of the product	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Extinguishing media	Suitable Use an extinguishing agent suitable for the surrounding fire.

Special Exposure Hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous Combustion Products	No specific data
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7: HANDLING AND STORAGE

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits. This product is not listed in New Zealand's Workplace Exposure Standards and Biological Indices 2013 published by WorkSafe New Zealand.

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering measures	Use only with good ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to workstation location.

Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eyes	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.
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.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES
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Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid
Color	: Light yellow
Odor	: Not determined
Odor threshold	: Not determined
pH	: Estimated. 7
Melting Point	: Not determined
Initial boiling point and boiling Range	: Greater than 200 °C (392 °F)
Flash point	: Greater than 150 °C (302 °F)
Evaporation rate	: Not determined
Flammability	: Non-flammable.
Explosion limits	
Upper:	: Not determined
Lower:	: Not determined
Vapor pressure	: Less than 0,01 Pa @20 °C (68 °F)
Vapor density	: Not determined
Relative density	: Not determined
Solubility	: Estimated. 0,009 kg/m3 @23 °C (73 °F)
Partition coefficient: n-octanol/water	: LogPow 3
Auto-ignition temperature	: Greater than 300 °C (572 °F)
Decomposition temperature	: Not determined
Viscosity	: Kinematic-Not determined



Dynamic- 12 - 14 Pa.s @25 °C (77 °F)

Other information

Not applicable.

Section 10: STABILITY AND REACTIVITY

Stability	The product is stable.
Conditions to avoid	Avoid release to the environment.
Materials to avoid	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

Section 11: TOXICOLOGICAL INFORMATION

Most Important Health Impacts

Inhalation	May cause respiratory irritation.
Ingestion	Irritating to mouth throat and stomach.
Skin contact	Irritation and allergic skin reaction.
Eye contact	Causes serious eye irritation

Potential chronic health effects

General	: Causes damage to organs through prolonged or repeated exposure.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.



Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing,

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following: irritation, redness,

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness,

Acute toxicity

Hazardous ingredient name

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer			
	LD50 Oral	Rat	30.000 mg/kg
	LD50 Dermal	Rat	> 1.200 mg/kg

Other Toxicological Information

Carcinogenicity

Classification

Hazardous ingredient name

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer		
	ACGIH	Not classified
	IARC	Not classified
	NTP	Not listed
	OSHA	Not classified

Section 12: ECOLOGICAL INFORMATION

Environmental effects

This product shows a low bioaccumulation potential. This material is toxic to aquatic life with long lasting effects.

Other adverse effects

No known significant effects or critical hazards.

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation



and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: TRANSPORT INFORMATION

Regulatory information	UN/NA Number	Proper shipping name	Classes/*PG	Additional Information
Land Transport NZS 5433	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. contains (LIQUID EPOXY RESIN)	Class 9 III	
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. contains (LIQUID EPOXY RESIN, LIQUID EPOXY RESIN)	Class 9 III	
IATA (Cargo)	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. contains (LIQUID EPOXY RESIN)	Class 9 III	

Section 15: REGULATORY INFORMATION

1000 Litres of Class 6.5B Substance requires an Emergency Response Plan under the Regulation 5.6 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

The Person in Control of a Business Unit 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 Norstik Epoxy Glue.

The Person in Control of a Business Unit 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 Epoxy Glue.

After June 2018 the Person in Control of a Business Unit 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 Norski Epoxy Glue Base.



**LABELLING, DISPOSAL SAFETY DATA SHEET AND PACKAGING REQUIREMENTS
MUST BE CARRIED OUT IN ACCORDANCE WITH ENVIRONMENTAL PROTECTION
AUTHORITY REQUIREMENTS INCLUDING ANY RELEVANT GROUP STANDARDS.**

Section 16: ANY OTHER RELEVANT INFORMATION

Revision Date 11 MARCH 2018

Revision Note New Format

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

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End of Safety Data Sheet