

SAFETY DATA SHEET

Issue Date July 2018

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name **NORSTIK 5 MINUTE GLUE BASE**

Description **CLEAR SUBSTANCE**

Other means of identification

UN Number **UN 3082 Environmentally Hazardous Substance, Liquid, n.o.s. (Epoxy resin mixture**

Recommended use of the chemical and restrictions on use

Recommended Use

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

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Enquiries@norski.co.nz

Emergency telephone number

Emergency Telephone

0800 500 341

Section 2: HAZARD(S) IDENTIFICATION

HSNO & GHS

6.1D Acutely toxic (oral, dermal inhalation)

6.3A(Causes skin irritation)

6.4A(Causes eye irritation)

6.5B(May cause an allergic skin reaction)

6.9B(May cause damage to lungs on repeated exposure)

9.1B(Toxic to aquatic life with long lasting effects)

ACUTE TOXICITY ORAL DERMAL INHALATION	Category 4
SKIN CORROSION/IRRITATION	Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION	Category 2A
SKIN SENSITIZATION	Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation]	Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED [skin,])	Category 1
AQUATIC TOXICITY (ACUTE)	Category 2
AQUATIC TOXICITY (CHRONIC)	Category 2

Signal Word: DANGER

Symbols



Hazard statements

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H372 Causes damage to organs through prolonged or repeated exposure: skin,
- 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

Keep Locked Up

Disposal

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

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3. Composition/Information on Ingredients

Chemical Name	CAS no.	Weight %
Bisphenol A/ epichlorohydrin resin	25085-99-8	20
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	2850-38-6	77%
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	3%

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.
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.

See section 11 for more detailed information on health effects and symptoms

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
Fire-fighting equipment	<p>or run-off to enter waterways. Stay upwind, keep out of low areas.</p> <p>Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).</p> <p>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</p>

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. 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

No Workplace Exposure Limits have been identified in source safety data materials.

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 adequate 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 the 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.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Material of gloves for long term application (BTT>480min):

- neoprene
- ethyl vinyl alcohol laminate (EVAL)
- polyvinyl chloride (PVC)
- nitrile rubber
- butyl rubber
- gauntlet type

Material of gloves for short term/splash application (10min<BTT<480min):

- neoprene
- ethyl vinyl alcohol laminate (EVAL)
- polyvinyl chloride (PVC)
- nitrile rubber
- butyl rubber
- gauntlet type

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 Emissions from ventilation or work process equipment should be controls 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

Information on basic physical and chemical properties

Information on basic physical and chemical properties

Appearance
 Physical state : liquid
 Color : clear
 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: :LogPow 3
 n-octanol/water
 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

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

Most important health effects Potential acute health effects

Inhalation May cause respiratory irritation.

Ingestion Irritating to mouth, throat and stomach.

Skin contact: Causes skin irritation. May cause an 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

: 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 Pow = 3 - 5

HSNO

Classification

9.1B Very ecotoxic in the aquatic environment

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

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Additional information
GB 12268	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	Class 9 III	



HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. contains
(LIQUID EPOXY RESIN)

Section 15: REGULATORY INFORMATION

EPA Group Standard and HSR Number

Surface Coatings and Colourants Subsidiary Hazard Group Standard 2017 HSR002670

10,000 kg of Norstik 5 Minute 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 5 Minute 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 Norstik 5 Minute Glue Base.

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 5 Minute 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 5 Minute 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 5 Minute 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

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End of Safety Data Sheet