

SAFETY DATA SHEET

Issue Date March 2018

Section 1: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier
Product Name NORSKI EPOXY FILLER BASE

Description

Other means of identification

UN Number 3082

HSNO Number HSR002670

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
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New Zealand

For further information, please contact

Contact Point

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Emergency telephone number

Emergency Telephone

0800 500 341

Section 2: HAZARD(S) IDENTIFICATION

HSNO Classification

Signal Word: WARNING

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

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- 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 | 70-90 |
| Formaldehyde, polymer with (chloromethyl)oxirane and phenol | 9003-36-5 | 10-30 |
| Other ingredients determined not to be hazardous | | To 100 |

Section 4: FIRST AID MEASURES

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| 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

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| 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 firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). |
| HAZCHEM | 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 3WE |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 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. Use cautious judgement when cleaning up spills. Shut off leaks, if possible without personal risk. |
| Personal Precautions | |
| 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 Zorball. 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 Zorball. Place in non-leaking container. Seal tightly for proper disposal. Flush are with water to remove trace residue. |

Section 7: HANDLING AND STORAGE

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| 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

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| Workplace Exposure Standards | None established |
| Engineering Controls | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other 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

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|--------------------------|--|
| Appearance | Liquid |
| Colour | Colourless |
| 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 ³ [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

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| 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

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| 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 | - |

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| Systemic Effects | Except for Skin sensitization, repeated exposure is not likely to cause significant adverse effects. |
| Carcinogenicity | IARC has classified the constituents of this product as non-carcinogenic. |
| Mutagenicity | In 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

Bisphenol A/
epichlorohydrin

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 |

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|------------------------|---|
| 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 transport

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| Road 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

1000 litres of Norski Epoxy Filler Base requires an Emergency Plan under Regulation 5.6 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.5B and 6.1D Classification.

1000 litres of Norski Epoxy Filler Base requires Signage under Regulation 2.5(1) of the Health and Safety at Work (Hazardous Substances) Regulations 2017 due to the 6.5B Classification. 6.1D requires Signage at 10,000

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 Norski Epoxy Filler Base.

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 Norski Epoxy Filler Base.

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 Filler 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 Norski Epoxy Filler Base were contained in this Group Standard.

Section 16: ANY OTHER RELEVANT INFORMATION

Revision Date March 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