

Norski Holdings urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interests of safety, you should, (1) notify your employees, agents, and contractors, of the information on this sheet; (2) furnish a copy to each of your customers for the product; (3) request your customers to inform their employees and customers as well.

I. Identification

MANUFACTURER: Norski Holdings Ltd, 10 Northpoint Street, Plimmerton, 5024 New

Zealand **PRODUCT NAME:** Timber Sealer Hardener

PRODUCE CODE: Timber Sealer Hardener

RECOMMENDED USES: Sealing wood and damp proofing – boats, bathrooms, wood areas prone to moisture. Use with timber sealer hardener.

HSNO CLASSIFICATION: **3.1C:** Flammable liquid; **61.D:** Harmful if swallowed; **6.3A** Irritating to the skin; **6.4A** Irritating to the eyes; **6.6B** May cause human mutagens; **6.7B** May cause human carcinogen; **6.8B** Suspected human reproductive or developmental toxicants; **6.9A** Danger of serious damage to health by prolonged exposure; **9.1D** Toxic to aquatic organisms; **9.3B** Toxic to terrestrial vertebrates.

CHEMICAL NAME: Isophoronediamine; **CAS NO.** 2855-13-2; **WEIGHT %:** 60 - 70

CHEMICAL NAME: Xylene; **CAS NO.** 1330-20-7; **WEIGHT %:** 5 - 10

CHEMICAL NAME: Methyl Isobutyl Ketone; **CAS NO.** 108-10-1; **WEIGHT %:** <20

II. Physical Data

BOILING POINT: Not available.

MELTING/FREEZING POINT: Not available.

SOLUBILITY/WATER: Not Miscible.

FLASH POINT: 34.4 °C (closed cup).

FLAMMABLE LIMITS: LFL: 0.9%. UFL: 6.8%

AUTO-IGNITION: 490 °C.

SPECIFIC GRAVITY/DENSITY: 1.02 g/cm³ [25 °C (77 °F)]

VAPOUR PRESSURE: 0.6 kPa (4.5 mm Hg)

VAPOUR DENSITY: 3.6 [Air = 1]

pH: 5

APPEARANCE, COLOUR AND ODOUR: Viscous liquid, dark/honey.

III. First Aid

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 for at least 15 minutes. 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.

EMERGENCY: 0800 POISON (764 766)

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IV. Fire-fighting Measures

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide.

FIRE AND EXPLOSION HAZARDS: DANGER: Corrosive. Clear fire area of all non-emergency personnel. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.

FIRE-FIGHTING EQUIPMENT: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Use approved positive pressure self contained breathing apparatus.

HAZCHEM: 3Y.

V. Accidental 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 area with water to remove trace residue.

VI. Handling and Storage

HANDLING: Keep out of reach of children. Put on appropriate PPE (see Section VII). 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.

VII. Exposure Controls/Personal Protection

WEL = workplace exposure limit; TWA = time weighted average; STEL = sort term exposure limit

INGREDIENT NAME: Contains polyoxpropylenamines.

OCCUPATIONAL EXPOSURE LIMITS: EH40-WEL (UK, 9-2006); WEL 15 min limit: 1080 mg/m³ 15 min; WEL 15 min limit: 250 ppm 15 min; WEL 8 hrs limit: 430 mg/m³ 8 hr; WEL 8 hrs limit: 100 ppm 8 hr.

ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION: Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved 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 gloves - polyvinyl alcohol (PVA), butyl rubber, EVAL, Neoprene.

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Effective Date : March 2017

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VIII. Stability and Reactivity

CHEMICAL STABILITY: Hazardous polymerization may occur under certain conditions of storage and use. **CONDITIONS TO AVOID:** Exposure to heat, direct sunlight, UV light, etc.

MATERIALS TO AVOID: Reactive or incompatible with the following materials: *oxidizing materials*: Slightly reactive or incompatible with the following materials: *acids and alkalis*. Peroxide. *Metal salt, such as Aluminium Chloride, Iron (III) Chloride*.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon oxides, halogenated compounds.

IX. Toxicological Information

POTENTIAL HEALTH EFFECTS

Inhalation: Harmful by inhalation

Ingestion: Irritating to mouth, throat and stomach.

Skin: 6.3A irritating to skin.

Eye: 6.4A irritating to eyes.

ACUTE HEALTH EFFECTS

Test: LD50

Species: Rat

Result: 898mg/kg

Exposure: -

Test: Intraperitoneal LD50 (Oral)

Species: Rat

Result: 2650mg/kg

Exposure: -

Test: LD50

Species: Rat

Result: 5000mg/kg

Exposure: -

Test: LC50 Inhalation Vapour

Species: Rat

Result: 12000mg/kg

Exposure: 4hrs

SYSTEM EFFECTS: 9.1D toxic in the aquatic environment.

CARCINOGENICITY: 6.7B Carcinogenicity studies were deemed inconclusive.

MUTAGENICITY: 6.8B Mutagenicity studies were deemed inconclusive.

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X. Ecological Information

ECOTOXICITY: Based on information for Epichlorohydrin.

Species: Selenastrum capricornutum

Period: 96hr

Result: 0.72mg/L

Species: Daphnia magna

Period: 96hr

Result: 4.7mg/L

Species: Cyprinodon variegatus

Period: 96hr

Result: 9.1mg/L

DEGRADABILITY: Under OECD guidelines, this material is considered readily degradable.

BIOACCUMULATION: No Log P_{ow} = 2.96

HSNO: 9.1D toxic in the aquatic environment.

XI. 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.

XII. Transport Information

ROAD, RAIL, SEA AND AIR TRANSPORT UN NUMBER: 1866

PROPER SHIPPING NAME: Resin Solution Flammable.

DG CLASS: 3

PACKING GROUP: III

HAZCHEM CODE: 3Y

IMO/IMDG CLASS: 3

ICAO/IATA CLASS: 3

EMS CODE: F – E, S – E

MARINE POLLUTANT: Yes

XIII. Regulatory Information

ERMA APPROVAL CODE: HSR002669

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