



MATERIAL SAFETY DATA SHEET

EPOXY CARBORUNDUM HARDENER

Effective Date : June 2012

Page 1 of 2

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: Epoxy Carborundum Hardener

CHEMICAL COMPOSITION: Fatty acid, amine condensed polymer paste

FORMULA: Not available

MOLECULAR WEIGHT: Not known

SYNONYMS: Not applicable

HAZARD CLASS: Not Established, hazard labels not required

UN NO: Not Classified

PROPER SHIPPING NAME: Epoxy Carborundum Hardener

COMMON NAME: Epoxy Carborundum Hardener

HAZCHEM: Not Established

PACKING GROUP: Not Classified

ADDITIONAL INFORMATION: Slightly alkaline putty which will slowly decompose with acids and oxidising agents.

CAS NO: Not applicable

CAS NAME: Not applicable

HSNO APPROVED CODE: HSR002670

HSNO CLASSIFICATIONS: 6.5B, 8.3A

II. Physical Data

BOILING POINT: Not Applicable (760mm Hg)

FREEZING POINT: 5°C

SPECIFIC GRAVITY: (H₂O + 1) 1.98 ±2%

VAPOUR PRESSURE: (@ 20°C) Not applicable

VAPOUR DENSITY: (AIR = 1) Not Applicable

SOLUBILITY IN WATER: (% BY WEIGHT @ 20°C) Slightly miscible

APPEARANCE & ODOUR: Light blue/green putty with ammonia odour

EVAPORATION RATE: (BUTYL ACETATE = 1) Not Applicable

III. Ingredients

MATERIAL: Mixture of tertiary fatty acids, amines

%: 37.10 ± 0.20 w/w

TLV HAZARD: See TLV and source

IV. Fire & Explosion Hazard Data

FLASH POINT: Greater than 150°C

FLAMMABLE LIMITS (IN AIR % BY VOLUME): LOWER: No Data; UPPER: No Data

While Norski Holdings Limited believes that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the test results, this data is not to be taken as a warranty or representation, for which Norski Holdings Limited assumes legal responsibility. It is offered solely for the recipients consideration, investigation and verification. Any use of this data, and information, must be determined by the user, to be in accordance with applicable local laws and regulations.



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EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical Powder, Alcohol Resistant Foam, Smothering Media, Water Fog (Do not use Water Jet).

SPECIAL FIRE FIGHTING PROCEDURES: Not classified as flammable but will burn and emit decomposition products. Wear proper self contained respirator.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

V. Health Hazard Data

TLV AND SOURCE: Epichlorohydrin (ECH) (ACGIH, 1989-90) 2ppm (10mg/m³) on resin solids. Typical residual concentration of "ECH" in mixed formula = 0.750ppm w/v

ACUTE EFFECTS OF OVER-EXPOSURE: To be studied in conjunction with MSDS : Epoxy Carborundum Base.

SWALLOWING: No acute toxicity data available. Not expected to cause long term health effects.

SKIN ABSORPTION: No acute toxicity data available. Can cause mild skin irritation or dermatitis, and may cause moderate to strong sensitizing of skin on prolonged or repeated contact.

INHALATION: No acute toxicity data available. Not expected to be an inhalation hazard under normal conditions. Vapour at elevated temperatures may cause respiratory irritation.

EYE CONTACT: No acute toxicity data available. Can slightly irritate the eye.

CHRONIC EFFECTS OF OVER-EXPOSURE: No acute toxicity data available. Irritation and sensitization of the skin after prolonged exposure, or repeated contact is possible.

OTHER HEALTH HAZARDS: Norski Epoxy Carborundum Hardener can be classified as practically non-toxic orally, and at most, slightly toxic percutaneously. Eye irritation is expected to be, at most moderate. Although expected to be an invitro mutagen, this potential is not expected to be expressed in testing invivo. From the totality of results from skin cancer studies with bisphenol-A resins on laboratory animals, this product is not expected to represent a carcinogenic hazard to mammalian life.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING: No specific measures are indicated as Norski Epoxy Carborundum Hardener is not expected to cause adverse health effects.

SKIN: Remove contaminated clothing as needed. Wash skin thoroughly with soap and water. If skin irritation occurs, the affected should be removed from all association with solvents, resins, curing agents, and formulated mixtures, and referred to a doctor.

INHALATION: No specific measures are necessary at normal temperatures. Vapour of mixed product at elevated temperatures can cause mild irritation. Remove the affected to fresh air source.

EYES: Do not delay! Flush eyes with copious quantities of fresh water for up to fifteen (15) minutes. Retract eyelids frequently. Seek medical attention immediately!

EMERGENCY: 0800 POISON (764 766)

NOTES TO PHYSICIAN: From the totality of results from skin cancer studies carried out on bisphenol-A resins, this portion of the formulation is not expected to be carcinogenic to laboratory animals. Regular health surveillance should be considered, in view of possible cross sensitization with other resins to analogous compounds cannot be reasonably excluded. If skin sensitization has developed, and a casual relationship has been confirmed, further exposure to this product and analogous compounds should not be allowed.

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