



MATERIAL SAFETY DATA SHEET

METHYL ETHYL KETONE

Effective Date : June 2012

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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

SUPPLIER: Norski Holdings Ltd, 10 Northpoint Street, Plimmerton, 5024 New Zealand

SHIPPING NAME: Methyl Ethyl Ketone, Norski Epoxy Thinners

OTHER NAMES: MEK; Ethyl Methyl Ketone; 2-Butanone; Methyl Acetone

UN NO: 1193

PACKAGING GP: II

DG CLASS: 3

SUB RISK: None allocated.

HAZCHEM: 2[Y]E

POISON SCHEDULE: S5

USE: Solvent in paints, surface coatings. Inks and printing. Cleaning fluid.

II. Physical Data

APPEARANCE & ODOUR: Clear colourless liquid with a strong sweet acetone-like odour

MELTING POINT: -86.3^oC

BOILING POINT: 79.6^oC

SPECIFY GRAVITY: (20^oC) : 0.805

VAPOUR DENSITY: (AIR = 1) 2.5

VAPOUR PRESSURE: (20^oC) 77.5mmHg

FLASH POINT (closed up): -4.0^oC

FLAMMABILITY LIMITS: (%) LEL: 1.7

FLAMMABILITY LIMITS: (%) UEL: 11.4

SOLUBILITY IN WATER: 23.4g/100ml @ 20^oC

AUTOIGNITION TEMP (C): 516^oC

MOLECULAR WEIGHT: 72.1

EVAPORATION RATE: 5.72 (n-Butyl Acetate = 1)

III. Ingredients

CHEMICAL NAME: Methyl Ethyl Ketone

CAS NO: 78-93-3

PROPORTION: 100%

IV. Health Hazard Information

HEALTH EFFECTS: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label where applicable. Symptoms that may arise if the product is mishandled are:

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ACUTE EFFECTS

SWALLOWED: May result in abdominal spasm, nausea and vomiting.

EYE: Liquid causes eye burns and may result in corneal damage. Vapours may cause irritation to eyes causing redness and pain.

SKIN: Not irritating to skin but may cause drying of the skin. Can be absorbed through the skin but has low toxicity by this route.

INHALED: Exposure to vapour at high concentrations may cause irritation of eyes, nose, and throat and can cause coughing and shortness of breath. Headaches, drowsiness and dizziness may also occur and this may ultimately lead to loss of consciousness. This effect is increased in the presence of alcohol.

CHRONIC EFFECTS: No known long term effects.

FIRST AID

SWALLOWED: If conscious immediately rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical assistance.

EYE: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.

SKIN: Wash with soap and water. Remove contaminated clothing and wash before reuse. If irritation, swelling, redness or blistering occurs seek medical assistance.

INHALED: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured ensure airways are clear. If breathing has stopped apply artificial respiration at once. Seek medical assistance.

ADVICE TO DOCTOR: Treat symptomatically.

EMERGENCY: 0800 POISON (764 766)

V. Precautions for Use

EXPOSURE STANDARDS: As published by the National Occupational Health and Safety Committee (Worksafe Australia).

TWA: 150ppm (445 mg/m³)

STEL: 300 ppm (890 mg/m³)

ENGINEERING CONTROLS: Decant in well ventilated areas or under an exhaust hood. Keep away from sources of heat or spark. Containers should be grounded during transfer or mixing operations. Cover containers when not in use.

PERSONAL PROTECTION: Avoid skin and eye contact and inhalation of vapours. Wear overalls, eye protection and gloves. Respiratory protection is required if there is a risk of exposure to high vapour concentration. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet.

FLAMMABILITY: Flammable liquid.

VI. Safe Handling Information

STORAGE AND TRANSPORT: Classified as a Class 3 Flammable Liquid Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Store away from sources of heat or ignition. Store in a cool place away from direct sunlight. Keep containers securely sealed and protected against physical damage. Do not store near oxidising agents or foodstuff. Plastic containers may be used only if approved for use. Methyl Ethyl Ketone may soften some plastics and rubbers. Earth and bond containers and vehicles to filling points when dispensing pouring or pumping as vapours may ignite due to static electricity.

SPILLS: Eliminate all ignition sources. No smoking. Wear proper protective equipment. Contain and absorb using sand, earth or other inert material. Stop spill at source if possible. Prevent from entering drains, sewers, streams or other bodies of water. Wash down area with water. If contamination of sewers or waterways has occurred advise the local emergency services. Transfer spilled material into clean

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labelled container for disposal.

DISPOSAL: Refer to State Land Waste Management Authority.

FIRE/EXPLOSION HAZARDS: Flammable liquid. When heated above flash point, releases vapour. When mixed with air and exposed to ignition source, vapour can burn in open or explode if confined. Vapours may be heavier than air. May travel long distances along ground before igniting or flashing back to vapour source. Never use welding or cutting torch on or near drum if empty (residues) because product can ignite explosively. Fire fighters to wear self-contained breathing apparatus with a full face piece operated in the positive pressure mode and full protective clothing when fighting fire.

EXTINGUISHING MEDIA: Alcohol resistant foam, carbon dioxide or dry chemical powder. Water spray may be used to keep fire-exposed containers cool until fire is out.

VII. Other Information and References

TOXICITY: No data available.

HAZARD CATEGORY: Irritant.

RISK STATEMENT: R11 Highly flammable. R36/37 Irritating to eyes and respiratory system.

SAFETY STATEMENT: S2 Keep out of reach of children. S9 Keep container in a well ventilated place. S16 Keep away from sources of ignition – No smoking. S25 Avoid contact with eyes. S33 Take precautionary measures against static discharge.

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