



EPOXIES • RESINS • GLUES • FILLERS

MATERIAL SAFETY DATA SHEET NOROX 9-MEKP

Effective Date : March 2017

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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

PRODUCT NAME: Norox 9-MEKP

PRODUCT CODE: G680824.

RECOMMENDED USE: Catalyst (initiator) for unsaturated polyesters.

II. Hazard Classification

NEW ZEALAND: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS5433:2007 Transport of Dangerous Goods on Land.

HSNO CLASSIFICATION:

- 5.2D – Substance that is an organic peroxide.
- 6.1D – Substance that is acutely toxic if swallowed.
- 6.1D – Substance that is acutely toxic by inhalation.
- 8.2B – Substance that is corrosive to dermal tissue.
- 8.3A – Substance that is corrosive to ocular tissue.
- 9.1B – Substance that is ecotoxic in the aquatic environment.
- 9.3C – Substance that is harmful to terrestrial vertebrates.

HAZARD STATEMENT CODES:

- H242 – Heating may cause a fire.
- H302 – Harmful if swallowed.
- H332 – Harmful if inhaled.
- H314 – Causes severe skin burns and eye damage.
- H371 – May cause damage to organs.
- H318 – Causes serious eye damage.
- H411 – Toxic to aquatic life with long-lasting effects.
- H433 – Harmful to terrestrial vertebrates.

PRECAUTIONARY STATEMENT CODES – PREVENTION:

- Pj102 – Keep out of reach of children. This statement applies only where the substance is available to the general public.
- P103 – Read label before use. This statement applies only where the substance is available to the general public.
- P104 – Read Safety Data Sheet before use.
- P210 – Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- P220 – Keep/store away from clothing and other combustible materials.
- P234 – Keep only in original container.
- P260 – Do not breathe mist, vapours or spray.
- P264 – Wash skin thoroughly after handling.
- P270 – Do not eat, drink or smoke when using this product.
- P271 – Use only outdoors or in a well-ventilated area.
- P273 – Avoid release to the environment.
- P280 – Wear protective gloves, protective clothing, eye protection and face protection.

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PRECAUTIONARY STATEMENT CODES – RESPONSE:

P101 – If medical advice is needed, have product container or label at hand. This statement applies only where the substance is available to the general public.

Ingestion:

P301+P330+P331 If Swallowed – Rinse mouth. Do NOT induce vomiting.

P310 – Immediately call a POISON CENTRE or doctor/physician.

Inhalation:

P304+P340 If Inhaled – Remove to fresh air and keep at rest in a position comfortable for breathing.

P310 – Immediately call a POISON CENTRE or doctor/physician.

P331 – Do NOT induce vomiting.

Skin:

P303+P361+P353 If on Skin (or hair) – Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P310 – Immediately call a POISON CENTRE or doctor/physician.

P363 – Wash contaminated clothing before reuse.

Eyes:

P305+P351+P338 If in Eyes – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTRE or doctor/physician.

P309+P311 If exposed or if you feel unwell – Call a POISON CENTRE or doctor/physician. P391 – Collect spillage.

PRECAUTIONARY STATEMENT CODES – STORAGE:

P405 – Store locked up.

P411+P235 – Store at temperatures not exceeding 30⁰C. Keep cool.

P410 – Protect from sunlight.

P420 – Store away from other materials.

PRECAUTIONARY STATEMENT CODES – DISPOSAL:

P501 – In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

RISK PHRASE(S):

R7 – May cause fire.

R22 – Harmful if swallowed.

R34 – Causes burns.

S14 – Keep away from reducing agents (eg amines), acids, alkalis and heavy metal compounds (eg accelerators, driers and metal soaps). S15 – Keep away from heat.

S20 – When using to do not eat or drink.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 – In case of accident or if you feel unwell, seek medical advice immediately.

S50 – Do not mix with peroxide accelerators or reducing agents.

S3/7/9 – Keep container tightly closed in a cool, well-ventilated place. S24/25 – Avoid contact with skin and eyes.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

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III. Composition/Information on Ingredients

Ingredients

Name	CAS	EINECS	Proportion
Methyl ethyl ketone peroxide	1338-23-4	215-661-2	30-<45%
Dimethyl phthalate	131-11-3	205-011-6	30-60%
Phlegmatiser	Proprietary		10-<30%
Methyl ethyl ketone	78-93-3	201-159-0	<10%
Hydrogen peroxide	7722-84-1	231-765-0	<5%

IV. First Aid Measures

INHALATION: If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

INGESTION: Do not induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

EYES: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes. Take care not to rinse contaminated water into the non-affected eye. See immediate medical attention.

FIRST AID FACILITIES: Eye wash fountains and safety showers should be easily accessible. **ADVICE TO DOCTOR:** Treat symptomatically.

EMERGENCY: 0800 POISON (764 766)

V. Fire-fighting Measures

SUITABLE EXTINGUISHING MEDIA: Use carbon dioxide, foam, water fog. Water fog or fine spray is the preferred extinguishing media for large fires.

HAZARDS FROM COMBUSTION PRODUCTS: Under fire conditions, this product may emit toxic and/or irritating fumes and gases including carbon dioxide, carbon monoxide, acetic acid, formic acid, propanoic acid, methyl ethyl ketone.

SPECIFIC METHODS: Organic peroxides provide oxygen for combustion so simple smothering actions are not effective against established fires. Due to the possibility of reignition, extinguished residues must be thoroughly cooled before approaching.

SPECIFIC HAZARDS: CAUTION – Dry chemical can cause MEKP to reignite. If confined in a rigid container (glass, metal, thick plastic) it could rupture violently. Exposure to a temperature of 60⁰C or greater may result in violent decomposition. This product will intensify any fire that it is involved in.

HAZCHEM: 2WE.

DECOMPOSITION TEMP: Self accelerating decomposition temperature (SADT) : >60⁰C.

PRECAUTIONS IN CONNECTION WITH FIRE: Fire-fighters should wear self contained breathing apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

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VI. Accidental Release Measures

EMERGENCY PROCEDURES: Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contaminated of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

VII. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Keep containers closed to prevent contamination. Rotate stock using the oldest material first. Do not add to hot material and avoid all sources of contamination. NEVER ADD PROMOTERS OR PROMOTED RESINS TO PRODUCT. Never bring peroxide into direct contact with accelerator during processing. Weigh out and add peroxide and accelerator separately. When adding this material to a resin solution, promptly and thoroughly mix after addition is made. When necessary, employ grounding, bonding, and explosion venting due to static discharge, shock, impact, heat, friction, or blows. Only glass, polypropylene, Teflon, polyethylene or ceramic containers, funnels and measuring devices should be used to avoid metal contamination during handling. Use only very clean containers and equipment free from traces of impurities. Never return unused product to original container. Do not reuse empty packaging to store other products. Have emergency equipment (for fires, spills, leaks, etc) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet facilities.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, well-ventilated and fire-resistant location. Shield containers from direct sunlight and maintain storage temperature ideally below 27⁰ C. Avoid any conditions that may cause drying or contamination. Do not leave material uncovered. Store in proper storage area and remove only as needed. Keep material in its original container. Isolate from acids, alcohols, ethers, reducing agents and polymerisation catalysts. Have appropriate fire extinguishers available in and near the storage area. For information on the design of the storeroom reference should be made to Australian Standard AS2714: The storage and handling of hazardous chemical materials – Class 5.2 substances (organic peroxides).

CORROSIVENESS: Corrosive liquid.

VIII. Exposure Controls/Personal Protection

National Exposure Standards:

No exposure standards have been established for this material by the National Occupational Health & Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated below:

National Occupational Health and Safety Commission (NOHSC), Australia Exposure Standards:

Substance TWA STEL

ppm mg/m³

Methyl ethyl ketone peroxide 0.2 1.5 (Peak
Limitation) Dimethyl phthalate – 5 – –

Methyl ethyl ketone 150 445 300 890

Hydrogen peroxide 1 1.4 – –

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New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance TWA STEL Notices ppm mg/m³ ppm
mg/m

Methyl ethyl ketone peroxide 0.2 1.5 (Ceiling) –

Dimethyl phthalate – 5 – – –

Methyl ethyl ketone 150 445 300 890 Bio

Hydrogen peroxide 1 1.4 – – A3

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL: (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Ceiling: A concentration that should not be exceeded during any part of the working

day. **A3 Carcinogen:** Confirmed animal carcinogen with unknown relevance to humans.

Bio: Exposure can also be estimated by biological monitoring.

BIOLOGICAL LIMIT VALUES:

No biological limit allocated.

ENGINEERING CONTROLS: Provide sufficient ventilation to keep airborne levels below the exposure limits. Where natural ventilation is inadequate, a flameproof local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is required.

RESPIRATORY PROTECTION: If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

EYE PROTECTION: Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances ie methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS1337 – Eye Protectors for Industrial Applications.

HAND PROTECTION: Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS2161.1: Occupational protective gloves – selection, use and maintenance.

BODY PROTECTION: Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

IX. Physical and Chemical Properties

APPEARANCE: A water white liquid.

ODOUR: Slight.

DECOMPOSITION TEMPERATURE: Self accelerating decomposition temperature (SADT): >60⁰C.

MELTING POINT: Not available.

BOILING POINT: Decomposes.

SOLUBILITY IN WATER: Slightly soluble.

SPECIFIC GRAVITY: 1.1

pH VALUE: Not available.

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VAPOUR PRESSURE: Not available.

VAPOUR DENSITY: >1

FLASH POINT: >93⁰ C (Cleveland Open Cup)

FLAMMABILITY: Combustible liquid.

AUTO-IGNITION TEMPERATURE: Not available.

FLAMMABLE LIMITS – LOWER: Not available.

FLAMMABLE LIMITS – UPPER: Not available.

X. Stability and Reactivity

CHEMICAL STABILITY: Stable when kept in original, closed container, at ambient temperatures. Decomposes very slowly at ambient temperatures to give off oxygen. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition at and above SADT: 60⁰ C.

SADT: Self-Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapours, which may autoignite. The length of time to generate a decomposition reaction, after the SADT has been reached or exceeded, is dependent upon how much the SADT has been exceeded and the length of time needed for the reaction exotherm (heat spike from increasing decomposition rate) to initiate a rapid decomposition reaction. Typically, SADT is inversely proportional to packaging size. Large packages will have a lower SADT due to smaller ratio of heat transfer area to volume of product.

CONDITIONS TO AVOID: Exposure to direct sunlight, open flame or sparks, contamination with above materials, prolonged storage above 38⁰ C, storage at or above SADT; or sources of ignition and contamination. Avoid contamination with any materials. Never mix directly with accelerators or promoters. Do not confine in closed systems or equipment. Do not return unused product to original container.

INCOMPATIBLE MATERIALS: Mineral acids, alkalis, reducing agents, oxidising agents, rust, amines, organic metal salts, transition metals and their compounds (such as iron, copper, brass, bronze, cobalt, nickel, lead), resins, promoters and promoted resins, accelerators and combustible materials, dimethylaniline, sulphur compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

HAZARDOUS REACTIONS: Violent reactions may be expected with acid, alkali, heavy metals and reducing agents.

HAZARDOUS POLYMERISATION: Will not occur.

XI. Toxicological Information

TOXICOLOGY INFORMATION: No toxicity data is available for this specific product. The available data for the ingredients are as follows:

For Methyl ethyl ketone peroxide:

LD50 (Oral, Rat): 484 mg/kg

For Dimethyl phthalate:

LD50 (Oral, Rat): 6,900 mg/kg

For Methyl ethyl ketone:

LD50 (Oral, Rat): 2,737 mg/kg

For Phlegmatiser:

LD50 (Oral, Rat): >3,200 mg/kg

For Hydrogen peroxide:

LD50 (Skin, Rat): 4,060 mg/kg

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INHALATION: Severely irritating to respiratory system. Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

INGESTION: Harmful if swallowed. May burn the mouth, gullet and stomach. If swallowed, decomposition may occur in the stomach leading to the production of oxygen gas. This may cause distension of the stomach. A case of toxic myocarditis has been reported following ingestion.

SKIN: Moderately corrosive to skin. May cause delayed chemical burns. In some cases transient whitening of the skin may occur.

EYE: Causes burns. Extremely irritating and corrosive. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage. May cause permanent eye damage if immediate First Aid action is not taken. Vapour may also cause irritation.

CHRONIC EFFECTS: Repeated or prolonged exposure to this material will result in severe skin irritation and may aggravate existing respiratory disorders.

CARCINOGENICITY: Hydrogen peroxide has been classified by the Occupational Safety and Health Service of the New Zealand Department of Labour as an A3 carcinogen. A confirmed animal carcinogen with unknown relevance to humans.

XII. Ecological Information

ECOTOXICITY:

For Methyl ethyl ketone peroxide:

EC50 (Guppy): 44.2 mg/L/96Hr

EC50 (Algae): 42,700 mg/L/96Hr

EC50 (Activated sludge): 16mg/L

PERSISTENCE/DEGRADABILITY: Methyl ethyl ketone has been reported to be readily biodegradable.

MOBILITY: Not available.

ENVIRONMENT PROTECTION: Do not allow product to enter drains, waterways or sewers.

XIII. Disposal Considerations

DISPOSAL STATEMENT:

Product Disposal: Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the ERMA New Zealand website under specific group standards.

Container Disposal: The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

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XIV. Transport Information

This material is classified as a Class 5.2 – Organic Peroxide according to NZS5433:2007 Transport of Dangerous Goods on Land.

It must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives.
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases Class
- 3, Flammable liquids Class
- 4.1, Flammable solids
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances
- Class 6, Infectious substances
- Class 7, Radioactive materials unless specifically
- exempted Class 8, Corrosive substances

Must not be loaded within the same freight container, and on the same vehicle must be separated horizontally by at least three metres unless all but one are packed in separate freight containers with:

- Class 2.2, non-flammable compressed gas
- Class 6.1, Toxic substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Class 3, Flammable liquids
- Class 4.1, Flammable solids
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidizing substances
- Class 6.1, Toxic substances Class
- 6.2, Infectious substances Class
- 8, Corrosive substances

UN NUMBER: 3105

PROPER SHIPPING NAME: Organic Peroxide Type D, Liquid

DG CLASS: 5.2

HAZCHEM CODE: 2WE

SPECIAL PRECAUTIONS FOR USER: IMDG

5.2 IERG NUMBER: 32



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XV. Regulatory Information

NATIONAL AND/OR INTERNATIONAL REGULATORY INFORMATION

New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Organic Peroxides, Corrosive Group Standard 2006

All components of this product are listed on the New Zealand Inventory of Chemicals (NZIC), or otherwise are in compliance with ERMA requirements.

HSNO APPROVAL NUMBER: HSR002630

HAZARD CATEGORY: Harmful, corrosive, oxidising.

AICS (AUSTRALIA): All components of this product are listed on the Australian Inventory of Chemical Substances (AICS), or otherwise are in compliance with the NICNAS requirements.

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