

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description: 1-Methyl-1H-imidazole-4-sulfonyl chloride
Cat No. : H33229
CAS No 137049-00-4
Molecular Formula C4 H5 Cl N2 O2 S

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Details of the supplier of the safety data sheet

Importer

Fisher Scientific Korea
D5,D6, Incheon Airport Logistics Complex
150, Gonghangdong-Ro 296 Beon-Gil
Jung-Gu, Incheon
Tel: +82-1661-9555
Fax: +82-2-2023-0603

Supplier

Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099

E-mail address Chem.KR@thermofisher.com

Emergency Telephone Number

Emergency telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970
CHEMTREC: 080 822 1374 (Local), CHEMTREC: 1-800-424-9300 or + 1-703-527-3887
Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

Category 1 B
Category 1

Environmental hazards

Based on available data, the classification criteria are not met

Label Elements

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Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary Statements

Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands and face thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P321 - Specific treatment (see supplemental first aid instructions on this label)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage

P405 - Store locked up

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

Reacts violently with water

Contact with water liberates toxic gas

This product does not contain any known or suspected endocrine disruptors

NFPA

Health
3

Flammability
0

Instability
0

Physical hazards
W

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | Common Name | CAS No | Index No | Weight % |
|---|--------------------------|-------------|------------|----------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | No information available | 137049-00-4 | Not listed | 99 - 100 |

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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| | |
|---|--|
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. |
| Ingestion | Do NOT induce vomiting. Call a physician immediately. |
| Inhalation | Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Extinguishing media which must not be used for safety reasons

Water.

Special hazards arising from the substance or mixture

Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water.

Hazardous Combustion Products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Chlorine, Sulfur oxides, Hydrogen chloride gas.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation.

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Wear self-contained breathing apparatus and protective suit. Sweep up and shovel into suitable containers for disposal. Do not expose spill to water.

Reference to Other Sections

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Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation. Do not allow contact with water. Do not allow contact with water because of violent reaction. Handle under argon.

Conditions for Safe Storage, Including any Incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep from any possible contact with water. Corrosives area. Keep under nitrogen.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Component | CAS No | Korea | ACGIH TLV | OSHA PEL |
|---|-------------|------------|------------|------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed | Not listed | Not listed |

| Component | CAS No | European Union | The United Kingdom | Germany |
|---|-------------|----------------|--------------------|------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed | Not listed | Not listed |

ACGIH - Biological Exposure Indices

| Component | CAS No | ACGIH - Biological Exposure Indices |
|---|-------------|-------------------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed |

Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Personal protective equipment Use only those certified by the Korea Occupational Safety and Health Administration.

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Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
When RPE is used a face piece Fit Test should be conducted

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color, etc.) White Solid

Odor No information available

Odor Threshold No data available

pH No data available

Melting Point/Range 85 - 90 °C / 185 - 194 °F

Softening Point No data available

Boiling Point/Range No information available

Flash Point No information available

Method - No information available

Evaporation Rate No data available

Flammability (solid,gas) No information available

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density No data available

Bulk Density No data available

Water Solubility No information available

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

| Component | CAS No | log Pow |
|---|-------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available |

Autoignition Temperature No data available

Decomposition Temperature No data available

Viscosity No data available

Explosive Properties No information available

Oxidizing Properties No information available

Molecular Formula C4 H5 Cl N2 O2 S

Molecular Weight 180.61

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Yes

Chemical Stability

Stable under normal conditions. Moisture sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization

No information available.

Hazardous Reactions

No information available.

Conditions to Avoid

Incompatible products. Exposure to moist air or water.

Incompatible Materials

Bases. Water. Strong oxidizing agents. Amines. Reducing Agent.

Hazardous Decomposition Products

Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorine. Sulfur oxides. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

No acute toxicity information is available for this product

Information on expected route of exposure

Inhalation

Not an expected route of exposure.

Ingestion

May be harmful if swallowed.

Eyes

Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness.

Skin

Avoid contact with skin. Causes burns. Skin Corrosion/Irritation.

Information on Health Hazards

(a) acute toxicity;

Oral

No data available

Dermal

No data available

Inhalation

No data available

| Component | CAS No | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-------------|-------------------|-------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available |

(b) skin corrosion/irritation; Category 1

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory

No data available

Skin

No data available

| Component | CAS No | Test method | Test species | Study result |
|-----------|--------|-------------|--------------|--------------|
|-----------|--------|-------------|--------------|--------------|

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| | | | | |
|---|-------------|-------------------|-------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available |
|---|-------------|-------------------|-------------------|-------------------|

(e) germ cell mutagenicity; No data available

| Component | CAS No | Test method | Test species | Study result |
|---|-------------|-------------------|-------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available |

(f) carcinogenicity; No data available

| Component | CAS No | Test method | Test species / Duration | Study result |
|---|-------------|-------------------|-------------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available |

There are no known carcinogenic chemicals in this product

| Component | CAS No | IARC | NTP | ACGIH | OSHA | UK |
|---|-------------|------------|------------|------------|------------|------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed | Not listed | Not listed | Not listed | Not listed |

(g) reproductive toxicity; No data available

| Component | CAS No | Test method | Test species / Duration | Study result |
|---|-------------|-------------------|-------------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available |

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable
Solid

Other Adverse Effects

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

| Component | CAS No | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|---|-------------|--|--|---|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Component | CAS No | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|---|-------------|-------------------|-------------------|-------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | No data available | No data available | No data available | No data available |

Persistence and degradability No information available

Bioaccumulative potential No information available

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Mobility in soil No information available

Ozone Depletion Potential

| Component | CAS No | Ozone Depletion Potential |
|---|-------------|---------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed |

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused Products Waste is classified as hazardous. Dispose in accordance with the Wastes Control Act (폐기물관리법).

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport

UN-No UN3261
Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name 1-Methyl-1H-imidazole-4-sulfonyl chloride
Hazard Class 8
Packing Group III

IATA

UN-No UN3261
Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name 1-Methyl-1H-imidazole-4-sulfonyl chloride
Hazard Class 8
Packing Group III

IMDG/IMO

UN-No UN3261
Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name 1-Methyl-1H-imidazole-4-sulfonyl chloride
Hazard Class 8
Packing Group III
Marine Pollutant No hazards identified

Special Precautions for User No special precautions required

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend: X - Listed '-' - Not Listed

International Inventories

| Component | CAS No | KECL | TSCA | EINECS | IECSC | DSL | NDSL | PICCS | ENCS | ISHL | AICS |
|---|-------------|------|------|--------|-------|-----|------|-------|------|------|------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | - | - | - | - | - | - | - | - | | - |

| Component | CAS No | Seveso III Directive | Seveso III Directive | Rotterdam | Basel Convention |
|-----------|--------|----------------------|----------------------|-----------|------------------|
|-----------|--------|----------------------|----------------------|-----------|------------------|

ALFAAH33229

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| | | (2012/18/EC) - Qualifying Quantities for Major Accident Notification | (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Convention (PIC) | (Hazardous Waste) |
|---|-------------|---|--|------------------|-------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential |
|---|-------------|----------------|---------------------------------|------------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

Korean National Regulations

| Component | CAS No | Act on Registration and Evaluation of Chemical Substances (K-REACH) | Authorised Chemicals | Existing Substances Subject to Registration |
|---|-------------|---|----------------------|--|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Chemical Control Act - Toxic Chemicals | Chemical Control Act - Prohibited Chemicals | Chemical Control Act - Use Restricted Chemicals |
|---|-------------|---|--|---|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Chemical Control Act - Accident Precaution Chemicals (% in mixtures) | Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures) | Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures) |
|---|-------------|---|--|--|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Waste Control Law | Ministry of Environment - CMR risk | Ministry of Environment - Critically Controlled Substance |
|---|-------------|-------------------|---------------------------------------|---|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | ISHA - Harmful Agents Subject to Work Environment Monitoring | ISHA - Prohibited substances | ISHA - Substances requiring permission |
|---|-------------|--|---------------------------------|---|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | ISHA - Substances subject to control | ISHA - Harmful Agents Requiring Health Examination | ISHA - Permissible Exposure Limits |
|---|-------------|---|--|---------------------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

| Component | CAS No | ISHA - Subject to Process Safety Reports (minimum quantity) | ISHA - Threshold Limit Values (TLVs) Chemicals | ISHA - Special management materials |
|---|-------------|---|---|--|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

National Fire Association - Dangerous Substances Minimum quantity requiring a permit

| Component | CAS No | Class 1 - Oxidising | Class 2 - Flammable | Class 3 - Spontaneously | Class 4 - Flammable | Class 5 - Self-reactive | Class 6 - Oxidising |
|-----------|--------|------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|
|-----------|--------|------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|

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| | | solids | solid | Combustible Substances and Dangerous Substances When Wet | liquids | substances | liquids |
|---|-------------|----------------|----------------|--|----------------|----------------|----------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

Control Parameters

| Component | CAS No | Korea | ACGIH - Biological Exposure Indices |
|---|-------------|------------|-------------------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not listed | Not listed |

US Management Information

OSHA - Occupational Safety and Health Administration

Not applicable

| Component | CAS No | Specifically Regulated Chemicals | Highly Hazardous Chemicals |
|---|-------------|----------------------------------|----------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable |

CERCLA

Not applicable

| Component | CAS No | CERCLA Extremely Hazardous Substances RQs | Hazardous Substances RQs | SARA 313 - Threshold Values % |
|---|-------------|---|--------------------------|-------------------------------|
| 1-Methyl-1H-imidazole-4-sulfonyl chloride | 137049-00-4 | Not applicable | Not applicable | Not applicable |

GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Danger.

H314 - Causes severe skin burns and eye damage. EUH029 - Contact with water liberates toxic gas. EUH014 - Reacts violently with water.

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P280 - Wear eye protection/ face protection. 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 CENTER or doctor/physician.

SECTION 16: OTHER INFORMATION

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

POW - Partition coefficient Octanol:Water

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

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Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development
BCF - Bioconcentration factor

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared By

Health, Safety and Environmental Department

Creation Date

15-Apr-2015

Revision Date

09-Jun-2024

Revision Number

6

Revision Summary

New emergency telephone response service provider.

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet