Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name : Mechanical Pump Oil SMR-100 (Liquid Paraffin)

Product code (SDS NO) : BQN-G-41362_US-1

Relevant identified uses of the product : Oil for oil rotary vacuum pumps

Uses advised against : Do not use for any purpose other than that recommended.

Details of the supplier of the safety data sheet

Manufacturer/Supplier : Mitsubishi Electric Corporation

Address : 5-1-14, Yada-minami, Higashi-ku, Nagoya-shi, Aichi 461-8670, Japan

Division : Laser Systems Dept. Telephone number : +81-52-721-2111 FAX : +81-52-721-1941

Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

| Ingredient name | CAS No. | Content (%) |
|--|--------------|-------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | Trade secret | 100 |

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22 Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing.

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Rinse in order to better reach all parts of eyes.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

If victim is conscious, give 1 - 2 glasses of water.

Do not induce vomiting without medical advice.

Call a POISON CENTER/doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

(Symptoms when skin and/or eye contact)

Irritation

Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, alcohol-resistant foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Do not use direct water jet.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Containers may explode when heated.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Move containers from fire area if this can be done without risk.

Extinguish from the windward to the extent possible.

Special protective equipment and precautions for fire-fighters

Wear protective gloves/protective clothing/eye protection/face protection.

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22 Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Stand at upwind. Evacuate personnel at downwind.

Stop leak if safe to do so.

Do not touch or walk on spilled material.

Move containers from the spilled area if this can be done without risk.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway .

If flown out into rivers, contact competent authorities.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Any incompatibilities

Strong oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22 Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store in a dry place.

(Incompatible storage condition)

Keep away from food, drink and animal feedstuffs.

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection

Control parameters

Adopted value

ACGIH(2010) TWA: as low as possible(L)(as Poorly and mildly refined Mineral oil,

excluding metal working fluids)(URT irr);

TWA: 5mg/m³(I)(as Pure, highly and severely refined Mineral oil,

excluding metal working fluids)(URT irr)

OSHA-PEL value is not available.

NIOSH-REL value is not available.

Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22

Color: Light yellow transparent

Odor: Slight petroleum odor

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: 165℃

Boiling range data is not available.

Flammability (gases, liquids and solids): Combustible

Lower and upper explosion limit/flammability limit:

Lower explosion limit: 1vol % Upper explosion limit: 7vol %

Flash point: >=200°C(Open cup method)

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity: 44mm²/s(40°C)

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.88g/cm³

Relative vapor density (Air=1) data is not available.

Particle characteristics: Not applicable Evaporation rate data is not available.

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

The following substances are produced by pyrolysis.

Carbon oxides

Section 11. Toxicological Information

[Product]

[Data for components of the product]

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Information on toxicological effects
Acute toxicity
 Acute toxicity (Oral)
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
  Acute toxicity (Dermal)
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
  Acute toxicity (Inhalation)
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
Irritant properties
 Skin corrosion/irritation
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
  Serious eye damage/irritation
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
Sensitization
  Respiratory sensitization
    [Product]
      Classification not possible (Insufficient data available or no data available).
    [Data for components of the product]
      No data available.
  Skin sensitization
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Classification not possible (Insufficient data available or no data available).

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22 No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[ACGIH]

A2(as Poorly and mildly refined Mineral oil, excluding metal working fluids)(2010):

Suspected Human Carcinogen

A4(as Pure, highly and severely refined Mineral oil, excluding metal working fluids)(2010):

Not Classifiable as a Human Carcinogen

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Section 12. Ecological Information

Toxicity

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal,

including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water .

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number: Not regulated
UN Proper Shipping Name: Not regulated

Class or division (Transport hazard class): Not regulated

Packing group: Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number: Not regulated UN Proper Shipping Name: Not regulated

Class or division (Transport hazard class): Not regulated

Packing group: Not regulated IATA (Dangerous Goods Regulations)

UN Number or ID Number: Not regulated
UN Proper Shipping Name: Not regulated

Class or division (Transport hazard class): Not regulated

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22

Packing group: Not regulated

Environmental hazards

Marine pollutants (yes/no): no

Special precautions for user

Special precautions for user is not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable to Transport in bulk according to Annex II of MARPOL and the IBC Code

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

All components are listed or exempted.

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility .

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

Mechanical Pump Oil SMR-100 (Liquid Paraffin) SDS NO BQN-G-41362_US-1 Created on 2024/10/22 General Disclaimer

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.