

Safety Data Sheet (SDS)

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1. Identification

Product

Description iCare Maintenance Oil

Order code Z016130

Company Information

Company Name NAKANISHI INC.

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Emergency contact No. —

Recommended use and usage restrictions Lubricant

2. Hazard identification

Significant hazards and effects

Specific hazards

GHS classification N/A

Physical and Chemical hazards

Explosives N/A

Flammable/Ignitable gas N/A

Flammable/Ignitable aerosol N/A

Burnable/oxidized gas N/A

High-pressure gas N/A

Ignitable liquid Out of category

Flammable solid N/A

Autoreactive chemical N/A

Pyrophoric liquid Out of category

Pyrophoric solid N/A

Self-heating chemical Unclassifiable

Water-reactive flammable chemical N/A

Oxidizing liquid N/A

Oxidizing solid N/A

Organic peroxide N/A

Metal-corrosive chemical Unclassifiable

Hazards to health

Acute toxicity (oral) Out of category

Acute toxicity (percutaneous) Unclassifiable

Acute toxicity (inhalation : gas) N/A

Acute toxicity (inhalation : vapor) Unclassifiable

Acute toxicity (inhalation : dust, mist) Unclassifiable

Skin corrosivity/Irritation Out of category

Serious damage to eyes/Eye irritation Out of category

Respiratory sensitization Unclassifiable

Skin sensitization Out of category

Germline mutagenicity Unclassifiable

Carcinogenicity Out of category

Reproductivity	Out of category
Effects on breast-feeding	N/A
Target organ/Systemic toxicity (single exposure)	Unclassifiable
Target organ/Systemic toxicity (repeated exposure)	Unclassifiable
Hazards to suction aspiration	Unclassifiable
Hazards to environment	
Hazards to water environment (acute)	Out of category
Hazards to water environment (chronic)	Unclassifiable
Hazards to the Ozone layer	N/A

Labeling elements

Pictogram	N/A
Signal word	N/A
Hazard statements	N/A
Precautionary statement	
Prevention	N/A
Response	N/A
Storage	N/A
Disposal	N/A

3. Composition/information on ingredients

Substance / Mixture	Substance
General product description	Lubrication oil
Ingredients and composition	

Chemical name (another name)	CAS No.	Concentration (mass %)	Chemical/Structural formula	Official gazette reference No. (Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. / Industrial Safety and Health Act)
Liquid paraffin	8042-47-5	Undisclosed	Unidentifiable	(9)-1692

4. First-aid measures

Inhalation	<ul style="list-style-type: none"> Move to a place with fresh air and keep warm with a blanket and keep quiet. Seek medical attention, if necessary.
Skin contact	<ul style="list-style-type: none"> Wash the adhered site with soap and water.
Eye contact	<ul style="list-style-type: none"> After thoroughly washing eyes with clean water, seek medical attention.
Ingestion	<ul style="list-style-type: none"> Immediately seek medical attention without forcing to vomit. Thoroughly rinse mouth if it is contaminated.
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"> Vomit/diarrhea-producing, if swallowed. Inflammation-producing, if enters eyes. Inflammation-producing, if it comes in contact with skin. Sickness-producing, if mist-inhaled.

5. Fire-fighting measures

Suitable extinguishing media	<ul style="list-style-type: none"> Spray enforcement agent, foam/powder/carbon dioxide fire-fighting agent are effective.
Unsuitable extinguishing media	<ul style="list-style-type: none"> Do not use jet spray water.
Specific hazards during firefighting	<ul style="list-style-type: none"> Remove inflammable items from the source of the fire. Use powder/carbon dioxide fire-extinguisher at the early stages of fire. In case of a large fire, it is effective to use a foam fire extinguisher and block out the air. Flames could spread by using water.

Special protective equipment for firefighters

- Sprinkle water on equipment around the area to provide cooling.
- Prohibit unauthorized persons from accessing the fire site and its surroundings.
- Be sure to wear protective equipment (fire-fighting wear) and extinguish a fire from the windward side.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Environmental precautions
Collection/Neutralization

- Wear protective equipment if there is a possibility of contact with skin/eyes.
- Use breathing apparatus so as not to inhale mist, if mist is generated.
- Collect as much of the liquid as possible to prevent soil/water pollution.
- In case of a large amount: Rope off the area where a leak has occurred to keep people away.
Make sure to wear protective equipment during work.
Use soil and sand to stop the flow of leaking liquid and lead the liquid to a safe area. Collect as much of the liquid as possible in an empty container. Pay attention not to discharge liquid into rivers and/or sewers etc.
- In case of a small amount: Absorb liquid with earth sand, waste cloth, etc. and collect it in an empty container. After that, thoroughly wipe it off with waste cloth.
- At sea: Use an oil-spill containment boom to prevent it from spreading, and absorb it with an absorption mat.
- In case of spilling, prevent liquid from spreading and collect it by skimming or using appropriate absorbent.
When compelled, use chemicals that meet technical standards specified in the Transport Ministerial Ordinance.
- Report to the appropriate authorities for help.

Methods and materials for containment and cleaning up

Prevention of secondary disaster

7. Handling and storage

Handling

General Precautions

- Take countermeasures against static electricity and wear dielectric clothing and shoes.
- Steam generated by oil products is accumulative since it is heavier than air. Therefore, it is required to provide adequate ventilation and keep it away from fire.
- The product must be handled at room temperature while paying attention to prevent moisture and dirt from entering into it.
- When handling a larger-than-specified quantity of the product, perform the activity at the manufacturing/storage/handling site satisfying the standard required by law.
- When repairing a machine with hazardous residue, remove the hazardous material completely in a safe place beforehand.
- Use protective equipment if there is a possibility of contacting with skin/eyes.
- Use a breathing apparatus so as not to inhale mist, if mist is generated.
- When taking the product out of the container, use a pump. Do not take up the liquid with a narrow tube with your mouth.
- Do not weld, heat, puncture, or cut the container. Residue may ignite with an explosion.
- Refer to "8. Exposure controls/personal protection"
- Do not apply pressure on the container when empty, which could cause an explosion.

Local/General ventilation
Advice on safe handling

Avoidance of contact	<ul style="list-style-type: none"> ▪ Do not swallow contents. ▪ Keep out of the reach of children. ▪ Avoid contact with flames, sparks or high-temperature solids. ▪ Do not generate steam needlessly.
Storage	
General Precautions	<ul style="list-style-type: none"> ▪ Avoid heat, spark, flame and static electricity. ▪ Electrical apparatus used in the storage area must be explosion-proof structured. Ground the apparatus. ▪ Make sure to seal the container, and avoid direct sunlight during storage.
Incompatible hazardous substances	<ul style="list-style-type: none"> ▪ Keep halogen, strong acid, alkali, and oxidizing substances in a separate place so as not to come in contact with each other.
Conditions	<ul style="list-style-type: none"> ▪ Store it with "Hazardous" labeling in a well-ventilated place.
Packaging material	<ul style="list-style-type: none"> ▪ When moving the product to a separate container, use a metal or glass container. Plastic containers may be soluble depending on the type.

8. Exposure controls/personal protection

Controlled concentration	<ul style="list-style-type: none"> ▪ Not specified. (Work environment evaluation standard: Attached table, Notification No. 79 of the Ministry of Health, Labor and Welfare)
Allowable concentration (Exposure limit, biological exposure	
Japanese Society of Occupational Health ACGIH	<ul style="list-style-type: none"> ▪ 3mg/m³ (Mineral oil mist) (*1) ▪ Time weighted value TWA5mg/m³ (Mineral oil mist) (*2)
Equipment measures	<ul style="list-style-type: none"> ▪ Seal the source or provide an air exhauster if mist or steam is generated. Provide eye and body washing equipment near the handling site.
Protective equipment	
For respiration	<ul style="list-style-type: none"> ▪ Not necessary under normal conditions. Wear a gas mask for organic gas if necessary.
For hands	<ul style="list-style-type: none"> ▪ Wear oil-resistant protective gloves if coming into long-term/repeated contact with hands.
For eyes	<ul style="list-style-type: none"> ▪ Wear general glasses if droplets are spread.
For skin/body	<ul style="list-style-type: none"> ▪ In case of long-term use or getting wet, wear oil-resistant work clothing with long sleeves. Take off wet clothing and wash it thoroughly prior to wearing it again.
Hygiene measures	<ul style="list-style-type: none"> ▪ Check protective equipment periodically with a protective equipment checklist. ▪ Do not eat or smoke while working. ▪ Wash hands with soap prior to eating or smoking.

9. Physical and chemical properties

Appearance	<ul style="list-style-type: none"> ▪ Liquid
Colour	<ul style="list-style-type: none"> ▪ Clear and colorless
Odour	<ul style="list-style-type: none"> ▪ Odorless
Odour Threshold	<ul style="list-style-type: none"> ▪ No data
pH	<ul style="list-style-type: none"> ▪ N/A
Melting/Freezing point	<ul style="list-style-type: none"> ▪ N/A
Initial boiling point and boiling range	<ul style="list-style-type: none"> ▪ No data
Flash point	<ul style="list-style-type: none"> ▪ 176 °C or more (COC)

Evaporation rate	▪ No data
Flammability (solid, gas)	▪ N/A
Upper explosion limit	▪ 7 % (estimate)
Lower explosion limit	▪ 1 % (estimate)
Vapour pressure	▪ 3.0×10^{-3} Pa (50 °C)
Relative vapour density	▪ No data
Relative density	▪ No data
Density	▪ 0.847 g/cm ³ (15.0 °C)
Solubility(ies)	
Water solubility	▪ Not soluble (Water: 20 °C)
Solubility in other solvents	▪ No data
Partition coefficient: noctanol/water	▪ No data
Auto-ignition temperature	▪ No data
Viscosity	
Viscosity, dynamic	▪ No data
Viscosity, kinematic	▪ 13.8 mm ² /s (37.8 °C)
Conductivity	▪ No data
Decomposition temperature	▪ No data
Fluid point	▪ -10.0 °C

10. Stability and reactivity

Chemical stability	▪ Stable
Possibility of hazardous reactions	▪ Stable
Conditions to avoid	▪ Heating, contacting with incompatible hazardous substances, fire source
Incompatible materials	▪ Strong oxidant
Hazardous decomposition products	▪ None

11. Toxicological information

Acute toxicity	
Product:	
Acute oral toxicity	▪ Acute toxicity (oral) value of this substance LD ₅₀ > 5 g/kg (*3) Remarks: Therefore, classified as outside of acute toxicity (oral).
Acute inhalation toxicity	▪ Unclassifiable for the reason of no data.
Acute dermal toxicity	▪ Unclassifiable for the reason of no data.
Skin corrosion/irritation	
Product:	▪ No irritation detected after applying it to the skin of a rabbit. (*3) Remarks: Therefore, classified as outside of skin corrosivity/irritation.
Serious eye damage/eye	
Product:	▪ No irritation detected after applying it to eyes of a rabbit. (*3) Remarks: Therefore, classified as outside of serious damage to eyes/eye irritation.
Respiratory or skin sensitisation	
Product:	▪ For respiratory sensitization, unclassifiable for the reason of no data. No skin sensitization detected after applying it to the skin of a pig. (*3)
Germ cell mutagenicity	
Product:	▪ Unclassifiable for the reason of no data.
Carcinogenicity	

Product:	<ul style="list-style-type: none"> Highly-refined oil is classified as 3 of IARC group (non-carcinogenic to humans). (*4) Liquid paraffin has a higher degree of refining than highly-refined oil. Therefore, classified as outside carcinogenicity.
Reproductive toxicity	
Product:	<ul style="list-style-type: none"> No reproductivity decline detected after applying 4350 mg/kg bw/day to male and female rats for 13 weeks (5 days/week). Remarks: Therefore classified as out of reproductivity.
STOT - single exposure	
Product:	<ul style="list-style-type: none"> Unclassifiable for the reason of no data.
STOT - repeated	
Product:	<ul style="list-style-type: none"> Unclassifiable for the reason of no data.
Aspiration toxicity	
Product:	<ul style="list-style-type: none"> Unclassifiable for the reason of no data.

12. Ecological information

Waste from residue	<ul style="list-style-type: none"> Dispose of industrial waste by yourself or entrust it to an industrial waste disposal professional licensed by the governor or a local public agency if available. No dumping. In case of disposal by landfill, burn it in an incinerator. The following substances in the burned ash must meet the standards set by the General Administrative Agency of the Cabinet: Copper or the compound, Zinc or the compound, Fluoride, Alkyl mercury compound, Mercury or the compound, Arsenic or the compound, Hexavalent chromium compound, Organophosphorous compound, Lead or the compound, Cadmium or the compound, Cyanogen compound, and PCB. In case of incineration disposal, carry out incineration in a safe place/method so as not to pose a hazard to others by burning or explosion. Post a security personnel.
Contaminated containers and packages	<ul style="list-style-type: none"> Dispose of industrial waste by yourself or entrust it to an industrial waste disposal professional licensed by the governor or a local public agency if available.

14. Transport information

National Regulations	
Hazchem Code	<ul style="list-style-type: none"> N/A
International Regulation	<ul style="list-style-type: none"> N/A
Domestic regulations	
Land transportation	<ul style="list-style-type: none"> Hazardous material of Fire Service Act
Container	<ul style="list-style-type: none"> List of rules/regulations for hazardous materials 3.2 Metallic drum (250L), Metallic container (60L) etc.
Labeling on container	<ul style="list-style-type: none"> I. Description of hazard: Category 4 No. 3 Oil, Danger level III II. Quantity III. Keep fire away <ol style="list-style-type: none"> 1) Deliver the containers free of friction/shaking during transportation. 2) In case of delivering a larger-than-specified quantity of products, provide the vehicle with appropriate signs specified in the ministerial ordinance. In addition, prepare suitable firefighting equipment in the vehicle in this case. The height of the cargo must be 3 m or less. 3) Do not mix it with Category 1 & 6 hazardous materials or high-pressure gas, when loading.
Ocean transportation	<ul style="list-style-type: none"> Ocean transportation Ship Safety Act, non-hazardous material, individual transport/cargo.

Air transportation	▪ Civil Aeronautics Act, non-hazardous material.
Special cautions	▪ For transport, avoid direct sunlight, load so as to prevent container breakage, corrosion, and leakage, and take measures to reliably prevent collapse of cargo.

15. Regulatory information

Industrial Safety and Law concerning Pollutant Poisonous and Fire Service Act	▪ Unnotifiable substance ▪ N/A ▪ N/A
Water Quality Pollution Control Act	▪ Hazardous substance, Category 4, No. 3 oil ▪ Oil discharge regulations (5 mg/L allowable concentration) Detected as n-hexane extract.
Act for the Prevention of Marine Pollution and Maritime Disasters	▪ Oil discharge regulations (prohibited in principle)
Sewerage Service Act	▪ Mineral oil discharge regulations
Wastes Disposal and Public Cleansing Act	▪ Industrial-waste regulations (Diffusion/discharge-prohibited)
Food Sanitation Act	▪ Must be used exclusively for the purpose of dividing and demolding bread dough under the liquid paraffin use restrictions of Japanese Standards of Food Additives.

16. Other information

Cited literature	<ul style="list-style-type: none"> ▪ (*1) Occupational exposure limit (OEL) recommendation by Japan Association of Industrial Health ▪ (*2) Thresholds limit values for chemical substances and physical agents and biological exposure indices. ACGIH (2005) ▪ (*3) European chemical substances information system ▪ (*4) IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans volume 33.
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The hazards information mentioned above is not always sufficient. Therefore, exercise extreme caution in handling.

This material safety data sheet is needed to use our products properly. It has a brief summary of cautions to take and is intended for normal handling.

Please handle this product appropriately at the user's own responsibility after referring to this material safety data sheet. The information described herein is derived from the information and manufacturer's own knowledge available at this point of time. Such data and evaluation do not make any guarantees. It is subject to change due to statutory revisions and new knowledge.