Safety Data Sheet (SDS)

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1. Identification

Product

Description Handpiece Maintenance Oil

Order code Z016117

Company Information

Company Name NAKANISHI INC.

Address 700 Shimohinata Kamuna-shi Tochigi 322-8666, Japan (HQ)

Dept. Quality Assurance Dept.

TEL +81(0)289-64-3380 (HQ) +81(0)289-64-7277 (QA) FAX +81(0)289-62-5636 (HQ) +81(0)289-64-3890 (QA)

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)

Acute toxicity (percutaneous)

Out of category 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

Effects on breast-feeding

Target organ/Systemic toxicity (single exposure)

Target organ/Systemic toxicity (repeated exposure)

Hazards to suction aspiration

Out of category

unclassifiable

unclassifiable

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 No precautionary phrases

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	CAS No.	Concentratio	Chemical/Structural	Notice No. from	PRTR
(another name)		(mass %)	formula	government gazette (CSCL)	
Liquid paraffin	8042-47-5	100	unidentifiable	9-1692	N/A

4. First-aid measures

Inhalation • Immediately move the affected person to a place with fresh air and

keep him/her warm with a blanket and quiet and seek medical

Skin contact • Immediately wash the site with soap and water.

Eye contact • Immediately and thoroughly wash eyes with clean water for 15 mins. If

you wear contact lenses, remove them, and continue to wash the eyes.

If the pain persists, seek the help of a doctor.

Ingestion • Seek medical attention without t forcing the person to vomit. Rinse

his/her mouth if it's contaminated.

Most important symptoms and effects, both acute

and delayed

 Vomit/diarrhea-producing, if swallowed. Inflammation-producing, if got into eyes. Inflammation-producing, if come in contact with skin.

Sickness-producing, if inhaled.

Protection of first-aiders

No information

No information

5. Fire-fighting measures

Suitable extinguishing medi • Spray enforcement agent, foam/powder/carbon dioxide fire-fighting

agent are effective.

Unsuitable extinguishing

media

Do not use jet spray water.

Specific hazards during

firefighting

No information

Specific extinguishing • Remove inflammable items from the source of the fire.

methods

Use powder/carbon dioxide fire-extinguisher at the early stages of fire. In case of a larger fire, it is effective to use a foam fire extinguisher and block out the air.

The flames could spread by using water. Sprinkle water on equipments around the area. Forbid unauthorized persons to access to the fire site.

Special protective equipment for firefighters

 Wear a proper protective cloth (rescue suit) and extinguish the fire from the windward side.

6. Accidental release measures

Personal precautions, protective equipment and

- Use protective equipment if there is a possibility of contacting with skin/eyes.
- Use breathing apparatus not inhale the mist, if necessary.

Methods and materials for containment and cleaning

- In case of spilling, immediately prevent it from spreading and collect it by skimming or using appropriate absorbent.
- If necessary, use chemicals that meets technical standards specified in the Transport Ministerial Ordinance.

Exposure to environment Collection/Neutralization

- Collect as much of the liquid as possible to prevent soil/water pollution.
- In case of large amount, rope off the area where a leak has occurred to keep people away. Be sure to wear protectors.

Use soil and sand to stop the flow of leaking lubricant and lead the lubricant to a safe area. Collect as much of the liquid as possible in an empty container.

Do not discharge it into rivers and/or sewers etc.

In case of small amount, supply earth sand/waste cloth to absorb the lubricant, and wipe it off.

At sea, use an oil-spill containment boom to prevent it from spreading, and it up with an absorption mat. Do not discharge leakage into sewers, drains, etc.

Dispose of waste etc. in accordance with applicable regulations.

Prevention of second disaster

Additional advice

• Immediately report to the appropriate authorities for help.

No information

7. Handling and storage

Handling

General Precautions

- Take a countermeasure against static electricity and wear a dielectric cloth/shoes. Steam generated by oil products is accumulative since it is heavier than air. Provide adequate ventilation and keep it away from fire. The lubricant must be handled at room temperature while paying attention to prevent moisture and dirt from entering the lubricant.
- When handling a larger-than-specified quantity of the products, perform the activity at the manufacturing/storage/handling site satisfying the applicable standards. When repairing a machine with hazardous residue, remove the hazardous material in a safe place beforehand

When repairing a machine with hazardous residue, remove the hazardous material in a safe place beforehand. Use protective equipment if there is a possibility of contacting with skin/eyes. Use breathing apparatus not inhale the mist, if necessary.

When taking the lubricant out of the container, use a pump. Do not suck it through a tube. Do not weld/overheat/punctuate/cut the container, which could cause an explosion.

Local/General ventilation

See "8. Exposure controls/personal protection"

Advice on safe handling • Do not apply pressure on the empty container, which could cause an

explosion.

• Do not swallow it. Keep out of reach of children.

needlessly.

Storage

Conditions • Avoid heat, spark, flame and static electricity.

Electric(al) apparatus used in the storage area must be explosionproof

structured. Earth the apparatus on the ground when used.

Airtight the container. Avoid direct sunlight.

Store it with "Hazard" labeling in a well-ventilated place.

Incompatible hazardous substances

Keep halogen/strong acid/alkali/oxidizing substances in a separate

place in order not to come in contact with each other.

Packaging material • When moving the lubricant to separate container, use a metal or glass

container.

Plastics containers could be soluble.

8. Exposure controls/personal protection

Equipment measures • For mist/vapor generation, keep the source of mist/vapor airtight or

provide a local exhaust system.

Provide cleaning facilities for eyes/body near the handling place.

Components with workplace control parameters

Component	Controlled	Allowable concentration		
	concentration	Japan society for	ACGIH(TLV-TWA)	ACGIH(TLV-STEL)
	(SHA)	occupational health		
Liquid paraffin	N/A	3mg/m ³ (Mineral oil mist)	5mg/m ³ (Mineral oil mist)	N/A

Protectors (if necessary)

For respiration Not necessary under normal conditions. Wear a (organic) gas mask if

necessary.

For hands Wear oil-resistant protective globes if come in long-term/repeated

contact with hands.

For eyes Wear general glasses if droplets are spread.

For skin/body In case of long-term use or getting wet, wear oil-resistant work cloth

with long sleeves.

Take off the wet cloth and wash it thoroughly prior to wearing it again.

Proper hygiene measure No eating and smoking while working.

Wash hands with soap prior to eating, smoking.

9. Physical and chemical properties

	Component
Status	Liquid
Appearance	Clear and colorless
Odor	Odiferous
рН	
Melting point	
Boiling point	
Firing point	160 °C(COC)
Ignition point	
Explosive range	1~7 vol% (estimate)
Vapor pressure	3.0 x 10 ⁻³ Pa (50°C)
Vapor density	

Specific gravity	0.835 g/cm ³ (15°C)
Solubility	Not soluble (water : 20°C)
Octanol/water partition coefficient	
Decomposition temperature	
Odor threshold	
Evaporation rate (Butyl acetate=1)	
Flammability (solid, gas)	
Fluid point	-10.0 ℃
Viscosity	7.8 mm ² /s (37.8°C)
Others	No data

10. Stability and reactivity

Chemical stability

Possibility of hazardous

reactions

Stable.

Stable.

Conditions to avoid • Heating, Contacting with Incompatible hazardous substances, Fire

source

Incompatible materials

Hazardous decomposition

products

Strong oxidant

N/A

11. Toxicological information

Acute toxicity

Product:

Acute oral toxicity

LD₅₀>5g/kg

therefore, classified as out of acute toxicity (oral).

Acute percutaneous

toxicity

Acute inhalation toxicity

gas vapor

Unclassifiable for the reason of no data
Unclassifiable for the reason of no data
Unclassifiable for the reason of no data

Unclassifiable for the reason of no data

Skin corrosion/irritation

Product:

mist

 Remarks: No irritation detected after applying it to skin of a rabbit, therefore, classified as out of skin corrosivity/irritation.

Serious eye damage/eye

Product:

 Remarks: No irritation detected after applying it to skin of a rabbit, therefore, classified as out of serious damage to eyes/Eye irritation.

Respiratory or skin sensitisation

Product:

 Remarks: For respiratory sensitization, unclassifiable for the reason of no data. No skin sensitization detected after applying it to skin of a pig.

Germ cell mutagenicity

Product:

Unclassifiable for the reason of no data

Carcinogenicity

Product:

 Remarks: Liquid paraffin has higher degree of refining than highlyrefined oil which is classified as 3 of IARC group (no carcinogenicity to

human). Therefore, classified as no carcinogenicity.

Reproductive toxicity

Product:

 Remarks: No reproductivity decline detected after applying 4350mg/kg bw/day to male and female rats for 13wks (5days/week), therefore,

classified as out of reproductivity.

STOT - single exposure

Product:

STOT - repeated

Unclassifiable for the reason of no data

Product:

Unclassifiable for the reason of no data

Aspiration toxicity

Product:

Unclassifiable for the reason of no data

Further information

Product:

Unclassifiable for the reason of no data

12. Ecological information

Ecotoxicity

Product:

Toxicity to fish (Acute

toxicity)

Classified as out of "Hazards to water environment (acute)"

Toxicity to crustacean

(Acute toxicity)

Toxicity to algae/aquatic plants (Acute toxicity)

Unclassifiable for the reason of no data

Unclassifiable for the reason of no data

Remarks: Fish (Bluegill) LC50>10g/L

Toxicity to fish (Chronic

toxicity)

· Unclassifiable for the reason of no data

Unclassifiable for the reason of no data

· Unclassifiable for the reason of no data

Toxicity to crustacean

(Chronic toxicity)

Toxicity to

microorganisms (Acute

Persistence and degradability Product:

Biodegradability

No information

Bioaccumulative potential

Product:

Bioaccumulation Partition coefficient:

noctanol/water Mobility in soil Product:

No information

No information

 No information Mobility

13. Disposal considerations

Disposal methods

Waste from residues

 Dispose of the container and the lubricant contained by yourself or request an industrial waste disposal professional licensed by the local government for the disposal. No dumping. In case of disposal by landfill, burn it in an incineration system beforehand.

The following substances in the burned ash must meet the standards set by the General Administrative Agency of the Cabinet: Copper or the compound, Zin or the compound, Fluoride, Alkyl mercury compound, Mercury or the compound, Arsenic or the compound, Hexavalent chromium compound, Organophosphorous compound, Lead and the compound, Cadmium and the compound, Cyanogen compound. PCB.

In case of incineration disposal, carry out the incineration in a safe place/way not to pose a hazard to others. Set a guard.

Contaminated packaging

 Dispose of the container and the lubricant contained by yourself or request an industrial waste disposal professional licensed by the local government for the disposal. No dumping. In case of disposal by landfill, burn it in an incineration system before disposal.

Local legislation

 Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. Transport information

International regulations National regulations

N/A

Surface transportation

Hazardous material of Fire defense law

Container

List of rules/regulations for hazardous materials 3.2 Metallic drum (250L), Metallic container (60L) etc.

Labeling on container

Description of the hazard, Category 4 No.3 Oil, Danger level III

- Quantity
- ı Keep fire away
- 1) Deliver the containers without being frictioned/shaken 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. Also prepare a suitable firefighting equipment in the vehicle. The height of cargo must be 3m or lower.
- 3) Do not mix it with Category 1 & 6 hazardous materials or highpressure gas, when loading.

Maritime transportation Air transportation Specific cautions

Ship Safety Act, nonhazardous material, individual transport/cargo Aviation law, nonhazardous material

On delivery, avoid direct sunlight and prevent container from being damaged/corroding/falling/rolling/collapsing.

15. Regulatory information

Industrial Safety and High Pressure Gas Safety Unnotifiable substance

Act

N/A

Fire defense law Poisonous and

Category 4, No.3 oil

N/A

Deleterious Substances Water Quality Pollution

Oil discharge regulations (5mg/L allowable concentration)

Oil discharge regulations (prohibited in principle)

Control Act

Detected as normal-hexane extracts

Act for the Prevention of Marine Pollution and Maritime Disasters Sewerage Service Act

Mineral oil discharge regulations

Industrial-waste regulations (Diffusion/outflow-prohibited)

Wastes Disposal and Public Cleansing Act Food Sanitation Act

Must be used exclusively for the purpose of dividing and demolding bread dough under restrictions of Japanese Standards of Food

N/A

PRTR

16. Other information

Informative literature SDS for each material

Liquefied petroleum gas SDS

All data of object substances under PRTR

All data of object substances under Industrial Safety and Health Act All data of object substances under Poisonous and Deleterious

Substance Control Law

There may be a lack of sufficient information for the reason that all Remarks

> documents and literatures are not searched. And release of new findings or revision of conventional theory could change this

This SDS is not intended to ensure completeness/accuracy of information of information. Therefore, the product requires extreme caution in handling. The adequacy will be determined at your own risk.