

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Material Name

Maintenance Oil for iCare

Registration status

This material is imported in amounts < 1 tonne/annum. This product and its components are not subject to REACH.

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

Identified uses

Maintenance oil for dental handpiece maintenance system

Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

NSK Europe GmbH

Elly-Beinhorn-Strasse 8

65760 Eschborn

Germany

Phone: +49 6196 77606 0

E-mail: info@nsk-europe.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aspiration Hazard - Category 1

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard symbols



Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention

None needed according to classification criteria.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

None known.

SECTION 3: Composition / information on ingredients

3.1 SUBSTANCES

CAS EC No Registration No	Component Name Synonyms	1272/2008 (CLP)	Percent
8042-47-5 232-455-8 --	White mineral oil, petroleum	Self-Classified: Asp. Tox. 1 - H304	≥99.99

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Call a POISON CENTER or doctor/physician.

Skin

Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Eyes

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

Ingestion

Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most Important Symptoms/Effects

Acute

May be fatal if swallowed and enters airways.

Delayed

No adverse effects expected.

4.3 Indication of Immediate Medical Attention and Special Treatment

No information on significant adverse effects.

Note to Physicians

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Spray agent, foam, powder, carbon dioxide

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

5.2 Special hazards arising from the substance or mixture

Irritating and toxic gases or fumes may be released during a fire.

Combustion

oxides of carbon

5.3 Advice for firefighters

Move container from fire area if it can be done without risk. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with flooding quantities of water until well after fire is out. Small fires: Fire extinguisher requirements: powder, or carbon dioxide. Large fires: Use foam to block the air for extinction. Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways. Avoid inhalation of material or combustion by-products.

Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective clothing and equipment, see Section 8.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

6.4 Reference to other sections

See Section 7 for Handling and Storage. See Section 8 for Personal Protective Equipment. See Section 13 for Disposal Guidance.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not breath vapor or mist. Do not get in eyes, on skin, or on clothing. Do not put in mouth. Keep away from heat, sparks and flame. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up.

Further information on storage conditions: Storage and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep away from incompatible materials. Packaging materials: Store in metal containers, glass Container -. Avoid use of plastic containers.

Incompatible Materials

strong oxidizing agents, halogens, strong acids, alkali

7.3 Specific end use(s)

Maintenance oil for dental handpiece maintenance system

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component Exposure Limits

White mineral oil, petroleum	8042-47-5
Germany (TRGS):	5 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) respirable fraction exposure factor 4
Germany (DFG):	5 mg/m3 TWA MAK respirable fraction
	20 mg/m3 Peak (respirable fraction)
Latvia	5 mg/m3 TWA
Switzerland:	5 mg/m3 TWA [MAK]

Component Biological Exposure Limits

None of this product's components are on the list.

Derived No Effect Levels (DNELs)

No DNELs available.

Predicted No Effect Concentrations (PNECs)

No PNECs available.

8.2 Exposure Controls

Engineering controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Eye/face protection

Wear safety goggles with a faceshield (EN 166).

Skin Protection

Wear chemical resistant protective clothing (EN ISO 6529).

Respiratory Protection

If airborne contaminant levels exceed recommended exposure limits, use CEN/EN Standard applicable respiratory protection appropriate for employee exposure levels. Consult with a health and safety professional for specific respirators appropriate for your use.

Glove Recommendations

Wear appropriate chemical resistant gloves (EN 374).

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colorless liquid	Physical State	liquid
Odor	odorless	Color	clear colorless
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	combustible
Autoignition Temperature	260 - 371 °C	Flash Point	≥ 176 °C (COC)
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	3 x 10 ⁻³ Pa @ 50 °C
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	0.845 at 20 °C
Water Solubility	Not soluble (20 °C)	Partition coefficient: n-octanol/water	log Pow >6
Viscosity	Not available	Kinematic viscosity	13.6 mm ² /s 37.8 °C
Solubility (Other)	Not available	Density	0.847 g/cm ³ at 15 °C
Physical Form	Oil	Molecular Weight	Not available

9.2 Other information

No additional information available for the product.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazard is expected.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

10.5 Incompatible materials

strong oxidizing agents, halogens, alkali, strong acids

10.6 Hazardous decomposition products

oxides of carbon

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

White mineral oil, petroleum (8042-47-5)

Oral LD50 Rat >5000 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Oral	> 2000 mg/kg
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Irritation/Corrosivity Data

No information available for product.

Respiratory Sensitization

No information available for product.

Dermal Sensitization

No information available for the product.

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by IARC or DFG.

Toxicity for reproduction

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Component Analysis - Aquatic Toxicity

White mineral oil, petroleum	8042-47-5
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L

12.2 Persistence and degradability

No information available for product.

12.3 Bioaccumulative potential

No information available for product.

12.4 Mobility in soil

No information available for product.

12.5 Results of PBT and vPvB assessment

No information available for product.

12.6 Other adverse effects

No additional information available for the product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste in accordance with Directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to LoW. EWC-code: 13 02 08*.

Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.

Since emptied containers retain material residue, follow safe handling/label warnings even after container is emptied.

Dispose of solid waste/container in accordance with local/state/national/international regulations.

SECTION 14: Transport information

		ADR	RID	ICAO	IATA	ADN	IMDG
14.1	UN Number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2	UN Proper Shipping Name	--	--	--	--	--	--
14.3	Transport Hazard Class(es)	--	--	--	--	--	--
14.4	Packing Group	--	--	--	--	--	--
14.5	Environmental Hazards	--	--	--	--	--	--
14.6	Special Precautions For User	--	--	--	--	--	--
14.7	Transport in Bulk According to Annex II of MARPOL and the IBC Code	--	--	--	--	--	--
14.8	Further information	--	--	--	--	--	--

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

SECTION 15: Regulatory information

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

REACH Candidate List of Substances of Very High Concern (SVHC) for Authorization (Article 59(1)) - Reg. (EU) No. 1907/2006

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

EU - Substances Depleting the Ozone layer (1005/2009)

No components of this material are listed.

EU - Persistent Organic Pollutants (850/2004)

No components of this material are listed.

EU - Export and Import Restrictions (689/2008) - Chemicals and Articles Subject to Export Ban

No components of this material are listed.

EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances

No components of this material are listed.

EU - Plant Protection Products (1107/2009/EC)

White mineral oil, petroleum	8042-47-5
Active Substances	Only uses as insecticide and acaricide may be authorised (important details in Commission Implementing Regulation 2017/555/EU); Conditions of use shall include, where appropriate, risk mitigation measures (important details in Commission Implementing Regulation 2017/555/EU); Member States concerned shall request - the submission of the specification of the technical material as commercially manufactured to verify the compliance with purity criteria of European Pharmacopoeia. 6.0. They shall ensure that the notifiers provides such information to the Commission by 30 June 2010 (important details in Commission Implementing Regulation 2017/555/EU)

EU - Biocides (528/2012/EU)

No components of this material are listed.

EU – Water Framework Directive (2000/60/EC)

No components of this material are listed.

EU - Limitation of Emissions of Volatile Organic Compounds Due to the Use of Organic Solvents in Certain Activities and Installations (1999/13/EC)

No components of this material are listed.

EU - Detergent Regulation (648/2004/EC)

No components of this material are listed.

Germany Regulations

Germany Water Classification - Product

hazard class 1 - low hazard to waters

Germany Water Classification - Component

White mineral oil, petroleum (8042-47-5)

ID Number 434 , hazard class 1 - low hazard to waters

Denmark Regulations

No components of this material are listed.

Component Analysis - Inventory

White mineral oil, petroleum (8042-47-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

SECTION 16: Other information

16.1 Indication of changes

New SDS

Preparation Date

29 June 2018

16.2 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada)

16.3 Key literature references and sources for data

Available upon request.

16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008

Available upon request.

16.5 Relevant H- and EUH-phrases (Number and full text) and Notes

H304 May be fatal if swallowed and enters airways

16.6 Training advice

Read the Safety Data Sheet before handling product.

16.7 Further Information

Disclaimer:

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.