



Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

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

1.1 Product identifier

Product name: GEAR OIL
Commercial code: 40.015
UFI code: JKDQ-KOWW-J00Q-3T8X

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

Detergent
Use: Professional
Identified uses:
Oil for the lubrication of gears in closed casing

Uses advised against
Do not use for uses other than those indicated

1.3 Details of the supplier of the safety data sheet

Company name: Silpar TK snc
Address: Via Rosa Luxemburg 12/14
10093 - Collegno (TO)
Telephone: +39 011 7791177
Fax: +39 011 7791177
Email: sicurezza@silpartkline.com

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" - Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" - Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" - Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica - Pavia	Tel. +39 0382 24444
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Azienda Ospedaliera Papa Giovanni XXII - Bergamo	Tel. +39 800 883300
Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not considered dangerous according to EC Regulation 1272/2008 (CLP).

2.2 Label elements

Hazard pictograms: -

Signal word: -

Hazard statements: -

Precautionary statements:
-

EUH208 Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction
EUH210 Safety data sheet available on request

2.3 Other hazards

Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020
Substance vPvB: None – Substance PBT: None

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification 1272/2008 (CLP)
1. Not Available 2. 701-175-2 3. Not Available 4. 01-2119456798-18-XXXX	Amines, C10-14-tert-alkyl	875 ppm	Inhal Acute Tox. 2 H330, Dermal Acute Tox. 3 H311, Oral Acute Tox. 4 H302, Skin Corr. 1B H314, Skin Sens. 1A H317, Aquatic Chronic 1 H410, Aquatic Acute 1 H400

.The full text of the H phrases is given in section 16 of the safety data sheet

* DECLL (CLP): The base oil contained in the product classified in accordance with note L, of Annex VI of EC regulation 1272/2008. The classification as a carcinogen is not required if it can be shown that the substance contains less than 3% DMSO extract according to IP 346 measurement "Determination of polycyclic aromatic substances in unused lubricating base oils and petroleum fractions without asphaltene - dimethyl extraction sulfoxide", Institute of Petroleum, London. This note applies only to certain petroleum-derived compound substances contained in Part 3.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult a doctor.
Skin contact	Wash contact areas with soap and water. If the product is injected into or under the skin, or into any part of the body, immediately refer the patient to a physician as a surgical emergency. Although initial high-pressure injection symptoms may be minimal or absent, early surgical treatment within hours can significantly reduce the final extent of the injury.
Ingestion	Get medical advice/attention. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.
Inhalation	Ventilate the environment. Immediately remove the patient from the contaminated area and keep him at rest in a well ventilated area. In case of malaise consult a doctor. If breathing has stopped, give artificial respiration. Take the injured person to fresh air and keep him warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

Local necrosis, evidenced by the onset of pain and delayed tissue damage, which arise a few hours after the subcutaneous injection of the product.
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

5.2 Special hazards arising from the substance or mixture



Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

Burning produces heavy smoke.

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

5.3 Advice for firefighters

For those who do not intervene directly:

Avoid contact with accidentally spilled material.

See Section 8 for advice on minimum requirements for Personal Protective Equipment. Other additional protective measures may be necessary, given the specific circumstances and / or the expert judgment of emergency responders.

For those who intervene directly:

Use work gloves (preferably long gloves) that ensure adequate resistance to chemicals. Gloves made of PVA are not water resistant and are not suitable for use in emergency situations. If contact with hot product is possible or expected, it is recommended to use heat-resistant and heat-insulating gloves.

Respiratory protection: A half-face or full-face respirator with filter (-i) for organic vapors and, where applicable, for H₂S or self-contained breathing apparatus (SCBA) may be used, depending on the extent of the spill and the potential level of exposure. If exposure cannot be fully characterized or an oxygen-deficient atmosphere is possible or expected, the use of an SCBA is recommended.

Chemical resistant goggles are recommended if splash or eye contact is possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

Prevent spillage or product from entering drains or water courses. Spills or uncontrolled discharges into water courses should be reported immediately to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for safe storage, including any incompatibilities

Arrange for storage in compliance with current legislation. Store in closed original container. Keep the product in cool and ventilated areas, away from heat sources and direct sunlight. The electrical equipment used must comply with local regulations regarding fire prevention for materials of this type.

It is forbidden to drink, eat and smoke in the areas where the product is handled, stored or processed. Avoid leaks and spills to prevent the risk of slipping.

LOAD / UNLOAD TEMPERATURE °C: Ambient

STORAGE TEMPERATURE °C: Ambient, protect from sunlight

STATIC ACCUMULATOR: This material is a static accumulator

Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

Keep away from food, drink and feed.

Incompatible materials:

See subsection 10.5

Indication for the premises:

Adequately ventilated rooms.

7.3 Specific end use(s)

Information not available.

The material can accumulate static energy charges which can cause sparks (ignition source). When the material is handled in bulk, an ignition source can ignite any flammable or residual vapors that may be present (e.g. during loading / unloading operations). Use proper storage and grounding procedures.

Section 1 Identified end use information. No industry guide available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Mineral oil

ACGIH-TWA - TWA: 5 mg / m³

Derived No effect level (DNEL)

Mineral oil

Inhalation 12.5 mg / m³ (Systemic, chronic)

Inhalation 12.1 mg / m³ (Local, chronic)

Inhalation 2.5 mg / m³ (Systemic, chronic)*

Inhalation 1.2 mg / m³ (Local, chronic)*

Oral 0.35 mg / kg bw / day (Systemic, chronic)*

* Values that refer to the population

Predicted No Effect Concentration (PNEC)

Information not available

8.2 Exposure controls

Hands protection

Gloves resistant to oils and solvents (neoprene, PVC, nitrile: 4-8 hours breakthrough time, CEN standard EN 420, 374, 388 have the general requirements and list the types of gloves). Replace the gloves at the first signs of wear.

Respiratory protection

No special requirements under normal conditions of use and with adequate ventilation. If the technical controls are not able to maintain the concentration in the air at an adequate level for the protection of the health of the workers, select the respiratory protective devices suitable for the specific conditions of use and in compliance with the legislation in force on the subject.

Eye and face protection

Wear protective goggles (see standard EN 166).

Body and skin protection:

Use overalls made of suitable material; immediately change contaminated clothing and wash it thoroughly before reuse. It is advisable to maintain good personal hygiene and work clothing (UNI EN 465 - 466 - 467).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Hazelnut
Odour:	Light hydrocarbons
Odour threshold:	N.A.
pH:	N.A.

Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

Melting point/freezing point:	-18°C (ASTM D 97)
Initial boiling point and boiling range:	> 300 °C
Flash point:	242°C (ASTM D 92)
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	UEL 7.0 LEL 0.9
Vapour pressure:	0.013 kPa a 20 °C (Valued)
Vapour density (Air=1):	> 2 @101 kPa (Valued)
Relative density (Water=1):	0.89 @15°C (ASTM D 4052)
Solubility(ies):	Insoluble
Partition coefficient: n-octanol/water:	>3.5 (Valued)
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	N.A.
Viscosity:	152 mm ² / s @ 40 °C (ASTM D 445)
Explosive properties:	N.A.
Oxidising properties:	N.A.

9.2 Other information

DMSO extract (IP364): <3% (Mineral oil)

Pour point: -15 °C (ASTM D 97)

Density: 0.892 Kg / L @ 15 °C (ASTM D 4052)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See subsections below.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Keep away from heat sources, open flames, direct sunlight and any other source of ignition.

10.5 Incompatible materials

Avoid contact with strong acids and bases and oxidizing agents. This can lead to the development of noxious and flammable gases or vapors.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. High temperatures can lead to the development of noxious and flammable gases or vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Unless otherwise specified, the data required by Regulation (EU) 878/2020 indicated below are to be understood N.A.:

(a) acute toxicity;

Amines, C10-14-tert-alkyl

Test: LC50 - Route: Smoke inhalation - Species: Rat = 1.19 mg / l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat = 251 mg / kg

Test: LC50 - Route: Oral - Species: Rat = 612 mg / kg

(b) skin corrosion/irritation;

(c) serious eye damage/irritation;

(d) respiratory or skin sensitisation;

(e) germ cell mutagenicity;

(f) carcinogenicity;

(g) reproductive toxicity;



Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

Amines, C10-14-tert-alkyl

Test: Reproductive Toxicity - Route: Oral - Species: Rat - Source: Positive, Maternal Toxicity

(h) STOT-single exposure;

(i) STOT-repeated exposure;

(j) aspiration hazard.

11.2 Information on other hazards

Information not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Use according to good working practices, avoiding to disperse the product in the environment.

Mineral oil

Not classified for environmental hazards

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Amines, C10-14-tert-alkyl

Biodegradability: Not rapidly degradable - Test: OECD - Duration: 28g-%: 21.8

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

N.A.

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class(es)

N.A.



Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

14.4 Packing group

N.A.

14.5 Environmental hazards

N.A.

14.6 Special precautions for user

N.A.

14.7 Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture

However, the chemical safety assessment of the dangerous substance contained was carried out.

SECTION 16: OTHER INFORMATION

Full text of H codes mentioned in sections 2 – 3

- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H330 Fatal if inhaled
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation

Safety data sheet

GEAR OIL

According to Regulation (EC) 1907/2006 – Regulation 878/2020

- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

Data of issue 28/10/2021

Printing date 05/01/2023

Revision 2 of 05/01/2023

GENERAL BIBLIOGRAPHY

Regulation (EU) 1907/2006 of the European Parliament (REACH)
Regulation (EU) 1272/2008 of the European Parliament (CLP)
Regulation (EU) 2020/878 (Annex II REACH Regulation)
Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
Regulation (EU) 2016/1179 (IX Atp. CLP)
Regulation (EU) 2017/776 (X Atp. CLP)
Regulation (EU) 2018/669 (XI Atp. CLP)
Regulation (EU) 2019/521 (XII Atp. CLP)
Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
Regulation (EU) 2019/1148
Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
Regulation (EU) 2020/878 of the European Parliament

The Merck Index. - 10th Edition
Handling Chemical Safety
INRS - Fiche Toxicologique (toxicological sheet)
Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes compared to the previous version:

01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16