

Safety Data Sheet (SDS)

1 Product and company information

Product identification

Product name Lubricants for endoscope simulators
Product code R 0 CMT

Company information

Company information R ZERO Inc.
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2 Summary of hazard and harmfulness

GHS classification Not applicable to classification

GHS label factor

Symbol No symbol
Signal word No signal word
Hazard and harmfulness information Not subject
Safety measure Wash thoroughly after handling. Use personal protective equipment if necessary.
Emergency measures In case of eye contact, wash cautiously with water for several minutes. Next, contact lenses should be removed if they are worn and can be easily removed. Cleaning should then be continued. If on skin, wash with plenty of water and soap. Contact a doctor if feeling unwell.
Storage Store in a well-ventilated area.
Disposal —

3 Composition and ingredients information

chemicals

General information

No hazardous components.

Chemical or generic name	CAS No	ISHL	ENCS	Content percentage vol%
Triglyceride fatty acid	73398-61-5	(2)-669	(2)-669	—

4 First aid measure

Necessary first aid treatment.

In case of the inhalation	Move the patient to the place with fresh air and get him/her to take a rest in the position easy to take a breath.
In case of the skin contact	Wash with copious amounts of water and soap.
In case of getting into the eye	Wash with water for a few minutes carefully. Secondly, take off the contact lens if possible easily. And keep washing afterwards.
In case of the ingestion	If feeling unwell, contact a doctor. Rinse mouth.

5 Measures to be taken in case of fire

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Powder extinguishing agents, foam extinguishing agents, carbon dioxide, sand
Fire-extinguishing agents that must not be used	No data
Specific hazards arising from chemicals.	No data

Special protective equipment and precautionary measures for firefighters.

Specific digestion methods	Cut off the source of combustion to the fire and extinguish the fire using suitable extinguishing agents. Extinguishing operations should be carried out as far upwind as possible.
Special protective equipment for firefighters	Wear suitable protective equipment (gloves, glasses, masks, etc.) during firefighting operations.

6 Leakage measure

Precautions for the human body, protective equipment and emergency measures

Methods and materials for containment and cleaning.

Environmental precautions.

Measures to prevent secondary disasters.

Always wear protective equipment (gloves and glasses) when working. In case of large quantities, evacuate people safely. Ensure ventilation as necessary.

In small quantities, absorb and remove with an absorbent (sawdust, soil, sand, rag, etc.), then wipe off the remainder thoroughly with a rag, rag, etc. In large quantities, Fill the area with earth to prevent spillage and guide it to a safe place before disposal.

Spills must not be discharged into rivers or sewers immediately afterwards.

Promptly remove any ignition sources in the vicinity and prepare extinguishing media.

7 Handling and storage consideration

Handling

Technical measure

Local exhaust ventilation, general ventilation, etc.

Safety handling precautions

Avoidance of contact

Hygiene measure

Provide eye and body washing facilities near the handling area.

Use appropriate exhaust ventilation equipment.

Fire precautions. Take care as quality deteriorates with heating. Use suitable exhaust ventilation equipment. Wash thoroughly after handling. Wear suitable protective equipment.

No data

No data

Storage

Safe storage conditions.

Safe containers and packaging materials

Storage temperature

Keep sealed in a container. Store in a well-ventilated area. Fire precautions.

No data

No data

8 Exposure prevention and protective measure

Permissible concentration, etc.

Exposure limit	Unknown
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Personal Protective Equipment

Eye/forehead protection.	Safety glasses
Hand protection.	Material: rubber protective gloves.
Skin and body protection	Long-sleeved work clothes
Respiratory protection	Worn as appropriate for the situation

9 Physical and chemical property

Appearance

Physical state	Liquid
Shape	Liquid
Color	Slightly yellow transparent
Odor	Ester odor
Odor thresholds	No data
pH	No data
Freezing point	-4.0° F/-20.0°C
Boiling point	No data
Flash point	462.2° F/239.0°C
Evaporation rate	No data
Combustibility	No data
Explosion limits -Upper limit	No data
Explosion limits -Lower limit	No data
Steam pressure	No data
Relative gas density	No data
Density	0.952g/ml(68.0° F/20.0°C) 0.936g/ml(104.0° F/40.0°C) 0.921g/ml(140.0° F/60.0°C)
Specific gravity	No data
Solubility (water)	Insoluble in water
Solubility (other)	Soluble in ethanol and n-hexane, soluble in xylene
n-octanol/ water partition coefficient	No data
Flash point	No data

Decomposition temperature	No data
Kinematic viscosity	No data
viscosity (coefficient)	26.0 mPa.s(68.0 ° F/20.0°C) 14.0 mPa.s(104.0° F/40.0 °C) 8.2 mPa.s(140.0 ° F/60.0 °C)
Particle properties	No data

10 Stability and reactivity

Reactivity	No data
Chemical reactivity	No data
Hazard and harmful reactivity possibility	Low reactivity. No self-reactivity.
Condition to be avoided	No data
Reactive chemical hazards material	No data
Hazard and harmful decomposition product	No data

11 Harmfulness information

Acute toxicity (Product) Oral	LD50 (rat): >2,000 mg/kg Not applicable to the category. Not applicable to the category based on available data.
Acute toxicity (Product) Dermal	No data Not applicable to the category based on available data on the ingredients.
Acute toxicity (Product) In case of inhalation	Dust, mist and fumes: not classifiable due to lack of data. Steam: no data. Not applicable to the category based on available data on the ingredients.
Skin corrosive/irritant (Product)	OECD TG404 (rabbit, 4h): Not irritating. Not classified based on undiluted available data.
Serious eye damage/eye irritation (Product)	OECD TG405 (rabbit): not irritating. Undiluted not classified on t
Respiratory or skin sensitization (Product)	Skin: no data Not applicable to the category based on available data on the ingredients. Respiratory: cannot be classified due to lack of data.

Carcinogenicity (Product)	No data Not applicable to the category based on available data on the ingredients.
Carcinogenicity (IARC)	No carcinogenic components have been identified.
Carcinogenicity (ACGIH)	No carcinogenic components have been identified.
Carcinogenicity (NTP)	No carcinogenic components have been identified.
Carcinogenicity (Japan Society for Occupational Health)	No carcinogenic components have been identified.
Carcinogenicity (EU)	No carcinogenic components have been identified.
Germ cell mutagenicity in vitro (Product)	Ames test (TA98, TA100): negative. Cannot be classified due to lack of data.
Germ cell mutagenicity in vivo (Product)	Cannot be classified due to lack of data.
reproductive toxicity (Product)	Cannot be classified due to lack of data.
Specific targets organic toxicity single exposure (Product)	Cannot be classified due to lack of data.
Specific targets organic toxicity repeated exposure (Product)	Cannot be classified due to lack of data.
Aspiration harmfulness (Product)	Cannot be classified due to lack of data.
Other impacts.	No data

12 Ecological influence information

Ecotoxicity

Harmfulness of the aquatic environment, Short-term (acute)

fishes (Product)	LC50 (rainbow trout, 96h): >100 mg/l Not applicable to the classification based on available data.
Aquatic invertebrate (Product)	Not applicable to the classification based on available data.
Aquatic plant toxicity (Product)	No data

Harmfulness of the aquatic environment, Long-term (chronic)

fishes (Product)	No data Not applicable to the category based on available data on the ingredients.
Aquatic invertebrate (Product)	No data Not applicable to the category based on available data on the

ingredients.
Aquatic plant toxicity
(Product) No data

Persistence and degradability

Biodegradability (Product) No data
BOD/COD ratio (ratio) No data

Ecological accumulative property

Bioconcentration factor (BCF)
(Product) No data
n-octanol/water partition
coefficient (Product) No data

Mobility in soil. No data

Hazardous to the ozone layer

No unregulated data.

Not applicable to the category based on available data on the ingredients.

Other information.

No data

13 Disposal consideration

Residual waste

See chapter "Handling and storage precautions". Incinerate in a suitable incinerator or entrust disposal to a specialised waste disposal company. This product is classified as industrial waste in accordance with the Waste Disposal and Public Cleansing Act. Dispose of the product in accordance with this Act and local regulations.

Contaminated containers and packaging

No data

14 Transportation consideration

International regulation

IMDG

Not applicable

IATA

Not applicable

Domestic regulation

Comply with national law

15 Application laws

Act on Promotion of Chemical Substance Discharge Control	Unregulated
Industrial Safety and Health Poisonous and Deleterious Substances Control Law	Unregulated
Gunpowder Control Law	Unregulated
High Pressure Gas Safety Act	Unregulated
Gunpowder Control Law	Unregulated
Fire Services Act	Class 4: Inflammable liquids, animal and vegetable oils, non-water soluble liquids Designated quantity (1000 litres)
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	Unregulated
Ship safety laws and regulatory provisions	Unregulated
Civil Aviation Law and Enforcement Regulations	Unregulated
Export Trade Control Order	Unregulated

16 Other information

Disclaimer

The information provided is based on our best investigations, but does not necessarily constitute a sufficient guarantee of safety with regard to the data and assessments provided. All chemicals have unknown hazards and must be handled with extreme caution. It is the responsibility of each user to set safe conditions of use. In the case of special handling, please implement new safety measures appropriate for the application and usage before use.

Cited document.

- Methods for communicating hazard information on chemicals according to G H S. One labelling, signage in the workplace and safety data Sheet (SDS) (J IS Z 7253:2019).
- International Chemical Safety Card (I CSC) Compiler's Guide Japanese edition edited by Chemicals Information Department, National Institute of Health, Chemical Industry Daily, 1994.
- G H S response guidelines. Guidelines for the Preparation of Labels and Labelling and Safety Data

- Sheets, Japan Chemical Industry Association, 2019.
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