

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: ELEC TS-5

Other means of identification

SDS number: B0001791

Recommended use of the chemical and restrictions on use

Recommended use: Not available.

Recommended restrictions: Not known.

Supplier's details

Manufacturer

Company Name:	Kao Corporation
Address:	1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
Telephone:	+81-3-5630-7700
Fax:	+81-3-5630-7889
Contact division:	Chemical Business
E-mail:	chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification

Not classified

Label Elements

The substance or product does not require a hazard warning label in accordance with the GHS directive.

Pictograms:	No symbol
Signal Word:	No signal word
Hazard Statement:	Not applicable
Prevention:	Wash thoroughly after handling. If needed, use personal protective equipment as required. This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition.
Response:	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell.
Storage:	Store in a well-ventilated place.
Disposal:	-

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
Glycerol monostearate	-	31566-31-1	

4. First-aid measures

Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: Gently wash with plenty of soap and water.

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

Ingestion: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, powder

Unsuitable extinguishing media: No data available.

Special hazards arising from the substance or mixture: No data available.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

Special protective equipment for fire-fighters:

Use goggles in combination with dust mask, and other protections as appropriate to situation.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. Keep upwind.

Accidental release measures:

Keep away from sources of ignition and prepare extinguishing media.

Methods and material for containment and cleaning up:

Prevent dispersion of dust. Sweep or vacuum by dust-explosion-proof type cleaner.

Environmental Precautions:

Do not discharge into the drains, surface waters or ground water directly.

7. Handling and storage

Handling

Technical measures:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Local/Total ventilation:

Use local exhaust ventilation, in case of generation of dust.

Safe handling advice:

Keep away from source of ignition. In case of heating or store in heating place, the content of monoglyceride may be decreased. This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition. Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required. Prevent generation of dust. This material may cause risk of dust explosion.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Keep container tightly closed. Store in a well-ventilated place. Keep away from source of ignition.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Glycerol monostearate	V TLV ID	10 mg/m3	ID OEL (04 2018)
Glycerol monostearate - Inhalable fraction.	TWA	10 mg/m3	ACGIH (03 2017)
Glycerol monostearate - Respirable fraction.	TWA	3 mg/m3	ACGIH (03 2017)

Appropriate Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation, in case of generation of dust.

Individual protection measures, such as personal protective equipment

- Eye/face protection:** Safety glasses with side shield(Safety goggles or Face shield)
- Hand Protection:** Rubber gloves
- Other:** Full-body suit
- Respiratory Protection:** Use dust mask, as appropriate to situation.
- Hygiene measures:** No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

- Physical state:** Solid
- Form:** Powder
- Color:** White
- Odor:** Slight characteristic odor
- Odor Threshold:** No data available.
- Melting Point:** 65 - 70 °C/149 - 158 °F
- Boiling Point:** No data available.
- Flammability:** No data available.
- Upper/lower limit on flammability or explosive limits**
 - Explosive limit - upper:** No data available.
 - Explosive limit - lower:** No data available.
- Flash Point:** 219 °C/426 °F
Method: Cleveland open cup
- Auto-ignition temperature:** No data available.
- Decomposition Temperature:** No data available.
- pH:** Not applicable

Viscosity

Dynamic viscosity:	44 mPa.s at 80 °C/176 °F
	21 mPa.s at 100 °C/212 °F
	18 mPa.s at 120 °C/248 °F
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	Soluble in chloroform and toluene
	Soluble in ethyl alcohol
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	0.912 g/ml at 80 °C/176 °F
	0.893 g/ml at 100 °C/212 °F
	0.875 g/ml at 120 °C/248 °F
Vapor density (air=1):	No data available.
Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Other information	
Heat of combustion	>= 34 kJ/g

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Has low reactivity. Has no self-reactivity.
Conditions to avoid:	No data available.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): > 2,000 mg/kg Not classified
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Not classified based on available data.

**Dermal
 Product:**

Classification not possible due to insufficient data.

**Inhalation
 Product:**

Dust and mist: Classification not possible due to insufficient data.
 Vapour: Classification not possible due to insufficient data.

Skin Corrosion/Irritation

Product:

OECD TG404 Rabbit, 4 h: Non irritant undiluted
 Not classified based on available data.

Serious Eye Damage/Eye Irritation

Product:

OECD TG405 Rabbit: Not classified undiluted
 Not classified based on available data.

Respiratory or Skin Sensitization

Product:

Skin: Classification not possible due to insufficient data.
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity

Product:

Classification not possible due to insufficient data.

IARC:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:

Ames test (TA98, TA100): Negative
 Classification not possible due to insufficient data.

In vivo

Product:

Classification not possible due to insufficient data.

Reproductive toxicity

Product:

Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Single Exposure

Product:

Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Repeated Exposure

Product:

Classification not possible due to insufficient data.

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: LC 50 (Rainbow Trout, 96 h): > 100 mg/l
 Not classified based on available data.

Aquatic Invertebrates
Product: Not classified based on available data.

Toxicity to Aquatic Plants
Product: No data available.

Chronic hazards to the aquatic environment

Fish
Product: Classification not possible due to insufficient data.

Aquatic Invertebrates
Product: Classification not possible due to insufficient data.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods: Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. This product may cause risk of dust explosion.

Contaminated Packaging: No data available.

14. Transport information

IMDG
 Not Regulated.

IATA
 Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Domestic Standard: In compliance with domestic law.

15. Regulatory information

Federal regulations

Indonesia. Dangerous Substances that Must be Registered (Regulation of the Minister of Health of the Republic of Indonesia)

Not Regulated

Indonesia. Prohibited Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 1)

Not Regulated

Indonesia. Restricted Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 2)

Not Regulated

Indonesia. Precursor Chemicals (Ministry of Trade Regulation No. 20 of 2021 on Import Policies and Arrangements, Appendix 1), as amended

Not Regulated

Indonesia. CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon)

Not Regulated

Indonesia. Ozone Depleting Substances (ODS) (Regulation of the Minister of Trade No. 83/M-DAG/PER/1/2012, Ann. I, II & III, as amended)

Not Regulated

Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Australia AICS:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Contact us for information
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date: 15.09.2023

Version #: 1.0

Source of information: No data available.

Further Information: No data available.

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