

Material Safety Data Sheet of OLC-10-B

Product name: Power electric live cleaning detergent, OLC-10-B

1. Identification/preparation of substances and Corporate Identity.

Name of chemicals: Power electric live cleaning detergent

Model: OLC-10-B

Usage: It is specialized in cleaning and maintenance of power equipment, and it can be used to provide equipment for some power equipment that can't be powered off or has high power outage cost. It can efficiently and safely remove the comprehensive pollution caused by oil, dust, moisture, salt, ice and snow on high-voltage power equipment, eliminate short circuit, heat and discharge, avoid flashover accidents such as pollution flashover and fog flashover, prolong the service life of equipment and reduce equipment loss.

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2. Composition information of ingredients

Pure substance or mixture: Mixture

Chemical properties: Non-flammable and flame-retardant silicone oil/alkane mixture.

Hazardous components /(CAS No.): no hazardous substances.

Active ingredient, chemical name:

Tripropyltriethoxysilane, Polyvinyl Alcohol, Polyether polyol

Composition	CAS-No.	Content
High boiling point isoparaffins	64742-46-7	70%-90%
Tripropyltriethoxysilane	86876-45-1	15%-20%
Polyvinyl Alcohol	9002-89-5	1%-5%
Polyether polyol	9003-11-6	1%-8%

3. Hazard identification

Overview of emergency situation: colorless transparent liquid

Classification of substances or mixtures: non-dangerous goods (GB13690-2009)

Hazard classification: there is no known GHS hazard classification

Explosion Hazard: This product is not flammable.

Marking elements:

A. graphic symbol number: Not applicable

B. image diagram: Not applicable

C. warning signs: Not applicable.

Precautions: No special requirements;

Fire and explosion: non-flammable substances;

And physical and chemical hazards: see Chapter 9 Physical and Chemical Properties and Chapter 10 Stability and Reactivity for details;

Health effects: See Chapter 11 Toxicology Information for details;

Hazard: See Chapter 12 Ecological Information for details; Other hazards: unknown

4. First aid measures

1) Skin contact: Take off contaminated clothes after extensive contact, rinse skin thoroughly with clean water, and seek medical advice immediately if you feel unwell.

- 2) Eye contact: Lift the eyelids and rinse with running water or normal saline. If you feel unwell, see a doctor immediately.
- 3) Inhalation: Take a large amount of inhalation and leave the site quickly to fresh air. If you feel unwell, see a doctor immediately.
- 4) Ingestion: Take plenty of food and drink plenty of warm water. If you feel unwell, see a doctor immediately.

5. Fire protection measures

- 1) Hazard: No data.
 - 2) Harmful combustion products: No data.
- Fire extinguishing method and extinguishing agent: spray water to cool the container, and if possible, move the container from the fire to an open place. If the container in the fire scene has changed color or produced sound from the safety pressure relief device, it must be evacuated immediately. Fire extinguishing agent: carbon dioxide, dry powder and sand.
- Precautions for firefighting: no information available.

6. Leakage emergency treatment

Cut off the leakage source as much as possible. Small leakage: absorbed or absorbed by sand or other incombustible materials. Large amount of leakage: build dikes or dig pits to prevent it from flowing into restricted spaces such as sewers and flood ditches. Cover with foam, keep the space ventilated, and reduce the personal injury caused by steam oxygen consumption. Transfer to tank car or special collector by pump, recycle or transport to waste disposal site for disposal.

7. Handling and storage:

Closed operation, local exhaust. Operators must receive special training and strictly abide by the operating rules. Operators are advised to wear direct gas masks (half masks), chemical safety glasses, protective overalls and chemical gloves. Keep away from kindling and heat sources. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation system and equipment. Prevent steam from leaking into the air in the workplace. Avoid contact with alkali metals. When handling, it should be handled lightly to prevent the packaging and containers from being damaged. Equipped with corresponding varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

Precautions for storage:

Store in a cool and ventilated warehouse. Keep away from kindling and heat sources. The temperature of the warehouse shall not exceed 30°C and the relative humidity shall not exceed 80%. Keep the container sealed. It should be stored separately from alkali metals and edible chemicals, and should not be mixed. Equipped with corresponding varieties and quantities of firefighting equipment. The storage area should be equipped with leakage emergency treatment equipment and suitable storage materials.

8. Contact control and individual protection

Maximum allowable concentration: TWA: 2.5 (mg/m³)

Monitoring method: no data.

Engineering control: the production process is closed and fully ventilated. Mechanized and automated as much as possible. Provide safe shower and eye washing equipment.

Respiratory protection: You must wear self-priming filter gas mask (full face mask) or isolation respirator when you may come into contact with its vapor. When emergency rescue or evacuation, it is recommended to wear air respirator.

Eye protection: Wear safety glasses

Physical protection: Wear protective overalls

Hand protection: wear chemical gloves

Other protection: Smoking, eating and drinking are prohibited in the work site. After work, shower and change clothes. Store contaminated clothes separately and wash them for later use. Carry out pre-employment and regular physical examination. Keep good hygiene habits.

According to the degree of contact, it is recommended to do medical examination regularly.

Don't take your work clothes home.

9. Physical and chemical properties

Residue (baked at 105°C, wt%): 0

Volatilization rate (30°C, mg/h): 23.508

Flash point, °C (closed): not detected.

Flammability: non-flammable

Breakdown voltage (kV): > 35.7

(test conditions: leakage current 0.5mA, power frequency, electrode spacing 2.5mm)
Copper mirror corrosion (23± 2°C, 45~55%RH, 24h): the copper film has no corrosion.
Corrosion of plastic (soaked at 25°C for 24h): no corrosion, discoloration, swelling and other phenomena (no corrosion).

Water content (wt%): 0.026

PH value(25±2°C) : 7.1

SIR (Ω): 6.2×10^{12}

ROHS 6 items

Lead (Pb) was not detected (< 2)

Cadmium (Cd) was not detected (< 2)

Mercury (Hg) was not detected (< 2)

Hexavalent chromium [Cr(VI)] was not detected (< 2)

Polybrominated biphenyls (PBBs) was not detected (< 5)

Polybrominated diphenyl ethers (PBDEs) was not detected (< 5)

ODS content(mg/kg)

CFCs was not detected (< 0.0001)

Halons was not detected (< 0.0001)

Carbon tetrachloride (CCl₄) was not detected (< 0.0001)

Chloroform (CCl₃CH₃) was not detected (< 0.0001)

HCFCs was not detected (< 0.0001)

HBFCs was not detected (< 0.0001)

Methyl Bromide was not detected (< 0.0001)

Chloromethane was not detected (< 0.0001)

10. Stability and reactivity

Stability: It is stable under normal use and storage conditions, and gradually decomposes when exposed to heat and acid.

Prohibited compounds: acids, etc.

Avoid contact conditions: heating, high temperature

Polymerization hazards: no polymerization.

Hazardous decomposition products: no data;

Other information: no data.

11. Toxicological information

Acute poisoning: a large amount of oral intake can cause fatigue, dizziness, nausea and other symptoms;

Chronic poisoning: Long-term direct skin contact can degrease the skin, causing dryness and desquamation.

Teratogenicity: No data available.

Carcinogenicity: No data available.

Toxicology data

1) Acute skin irritation:

Acute skin irritation in rabbits: no irritation

2) Acute eye irritation:

Eyes-rabbits: no irritation.

3) Acute oral toxicity (LD50):

LD50 (oral/mouse): >5000mg/kg bw Acute oral toxicity is non-toxic

4) Acute inhalation toxicity (LC50):

LC50 (inhalation/mouse): > 2000mg/m³ Acute inhalation toxicity is non-toxic

5) Acute percutaneous toxicity:

Acute percutaneous toxicity of SD rats with LD50 >2000mg/kg bw is non-toxic

12. Ecological data

Biodegradability of ecological information: no data available.

Bioaccumulation or bioaccumulation: no data available.

Other harmful effects: This substance has no obvious harm to the environment.

13. Disposal

Waste nature: no data

Disposal methods: Refer to national and local regulations before disposal. The waste exhibits one or several hazardous waste characteristics and should be disposed of in accordance with

national and local environmental protection authorities. There are no uniform national regulations for the disposal of chemical residues. Chemical residues are generally treated as special waste. Refer to national and local regulations before disposal. It is recommended that contact the relevant agency or an approved waste disposal company, they will advise on how to dispose of the special waste.

14. Transportation Information

Packing method: Barrel.

Packing category: General packing

Dangerous goods serial number: Not Applicable.

Dangerous goods label: : Not Applicable

Transportation precautions: Transportation vehicles should be equipped with the corresponding variety and quantity of fire-fighting equipment and leakage emergency treatment equipment. It is best to transport in morning and evening in summer. It is strictly forbidden to transport or pack mixed with acid, alkali and food chemicals. During transportation, it should be protected from solarization, rain and high temperature. Keep away from fire, heat and high temperature areas during stopovers. The exhaust pipe of the vehicle carrying the item must be equipped with a fire-blocking device, and it is forbidden to use mechanical equipment and tools that are prone to sparks. When transporting by road, follow the prescribed route and do not stay in residential areas and densely populated areas.

15. Management information, laws and regulations:

Specific safety, health and environmental laws and regulations of the substance or mixture

1) Measures for environmental management of new chemicals:

This product conforms to the new material environment management method of China, and all the ingredients are listed or exempted from the existing chemical substances list.

2) Regulations on Safety Management of Dangerous Chemicals

Catalogue of hazardous chemicals (2015 edition) No ingredients are listed in GB18218

Identification of major hazard sources of hazardous chemicals No ingredients are listed in

labor protection regulations of workplaces where toxic substances are used No ingredients are listed.

No ingredients are included in the list of high toxic substances.

16. Other information:

Suggested categories and numbers to be handled by comparison:

- 1) Not listed in GB12268, land transport can be exempted from the rules.
- 2) It is not restricted by IMDG CODE, and shipping can be handled according to unrestricted cargo conditions.
- 3) It is not restricted by IATA DGR, and air transportation can be handled according to unrestricted cargo conditions.
- 4) Not listed in the List of Dangerous Goods of Railways (2009), this product is a non-dangerous goods, according to the reference of ordinary goods transportation

Reference:

- 1) GB12268/GB6944, regulations on the administration of dangerous goods on roads.
- 2) International Maritime Dangerous Goods Code (IMDG CODE)
- 3) IATA Dangerous Goods Code (IATA DGR) TB/T 2688
- 4) List of Railway Dangerous Goods (2009)
- 5) United Nations Recommendations on the Transport of Dangerous Goods-Model Regulations
- 6) United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Written by Fujian Tengdajie Environmental Protection Engineering Co., Ltd.

Released on Oct 2022

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