

Material Safety Data Sheet (MSDS)

1.0 Chemicals and Corporate Identity

1.1 Product Name: Power equipment cleaning agent

1.2 Supplier Details:

Company: ZhuoCong (Shanghai) Environmental Protection Technology Development Co., Ltd.

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2.0 Composition Information

Composition	content	CAS No
High boiling point alkane mixture	60% - 90%	/
Propylene glycol monomethyl ether	20% - 30%	107 - 98 - 2
Additive	1% - 10%	/

3.0 Hazard Overview

3.1 Immersion Route: Inhalation, Ingestion, Percutaneous Absorption.

3.2 Potential health hazard:

No obvious adverse reactions to the respiratory system and skin.

Effect on the eyes, no obvious adverse reactions occurred in a small amount of contact with the eyes, a large amount of contact, mild congestion of the eye conjunctiva, but no edema and secretions, recovered after 24 hours.

3.3 Potential environmental hazards:

No significant harm to the environment, no significant pollution to water, soil and the atmosphere

4.0 First Aid Measures

4.1 Skin contact:

High exposure, remove contaminated clothing, rinse skin thoroughly with water, and seek medical attention if feel unwell.

4.2 Eye contact:

Lift eyelids and rinse with running water or saline. Seek medical

attention if feel unwell.

4.3 Inhalation:

Quickly leave the site to fresh air. Seek medical attention if feel unwell.

4.4 Ingestion:

Drink plenty of warm water. Seek medical attention if feel unwell.

5.0 Fire Fighting Measures

5.1 Flash Point: 70°C

5.2 Extinguishing Media: Carbon dioxide, dry powder, sand.

5.3 Explosion Hazard: Container may rocket or explode in heat of fire.

5.4 Fire Fighting Instruction: Spray the water to cool the container and, if possible, move the container from the fire to the open area. Personnel must be evacuated immediately if the container in the fire has changed color or made a sound from a safety pressure relief device.

6.0 Leakage Emergency Treatment

6.1 Cut off the source of the leak if possible.

6.2 Small leaks: Adsorb or absorb with sand or other non-combustible materials.

6.3 Massive leakage: construct dikes or digging shelters to prevent flow into restricted spaces such as sewers and flood drains. Cover with foam to keep the space ventilated and reduce personal injury caused by steam oxygen consumption. Transfer to tanker or special collector with pump, recycle or transport to waste disposal site for disposal

7.0: Handling and Storage

7.1 Operation precautions:

Confined operation, local exhaust. Operators must be specially trained and strictly follow the operating procedures. Operators are advised to wear direct gas masks (half masks), chemical safety glasses, anti-poison penetrating work clothes, and chemical resistant gloves. Keep away from fire, heat. Strictly no smoking in the workplace. Use explosion-proof ventilation systems and equipment. Prevent vapors from leaking into the workplace air. Avoid contact with alkali metals. Lightly load and unload during handling to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire-fighting equipment and leakage emergency treatment equipment. Empty containers may be harmful residues.

7.2 Storage precautions:

Store in a cool, ventilated warehouse. Keep away from fire and heat. The temperature of the reservoir does not exceed 30 °C, and the relative humidity does not exceed 80%. Keep the container sealed. It should be stored separately from alkali metals and food chemicals, and should not be mixed. Equipped with the appropriate variety and quantity of fire equipment. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

8.0 Contact Control / Personal Protection

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

8.2 Engineering control: The production process is confined and fully ventilated. As mechanized and automated as possible. Safety showers and eyewash equipment are provided.

8.3 Respiratory protection: Self-priming filter respirators (full face masks) or isolated respirators must be worn when exposed to vapors. Air respirators are recommended for emergency rescue or evacuation.

8.4 Eye protection: Wear safety glasses.

8.5 Body protection: Wear anti-poisoning and infiltrate overalls.

8.6 Hand protection: Wear chemical resistant gloves.

8.7 Other protection: Smoking, eating and drinking are prohibited at working site. After work, take a shower. Store clothes contaminated with poisons separately and wash them for later use. Conduct pre-employment and regular physical examinations. Maintain good hygiene practices. Depending on the level of exposure, it is recommended to have a regular medical checkup. Don't bring work clothes home

9.0 Physical and Chemical Properties

9.1 Appearance: colorless and transparent liquid

9.2 Physical State: Liquid

9.3 Smell: solvent odor

9.4 Density: 0.75 ± 0.05 g / cm³

9.5 pH value: 1% aqueous solution pH: 6.5-7.5

9.6 Boiling point (°C): 75-148

9.7 Flash point (°C): 70 ASTM Closed Cup

9.8 Solubility: insoluble in water, soluble in ethanol.

10.0 Stability and Reactivity

10.1 Stability: it is stable under normal use and storage conditions, and decomposes gradually when encountering heat and acid.

10.2 Prohibited compounds: acids, etc.

10.3 Avoid contact conditions: heating, high temperature

10.4 Polymerization hazard: non polymerization

11.0: Toxicological Information

11.1 Acute poisoning: large ingestion can cause symptoms such as fatigue, dizziness, nausea;

11.2 Chronic effects: long term direct skin contact has degreasing effect on skin, causing dryness, desquamation, etc.

12.0 Ecological Data

12.1 Biodegradability: not available.

12.2 Bioaccumulation: not available.

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

13.0 Disposal Consideration

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.

14.0 Transportation Information

Packing method: Barrel.

Land Transport ADR/RID and GGVS/GGVE (cross-border /domestic)

ADR/RID Class:	3
UN Number:	UN9088

Hazard Code: 33648
Technical Name: Power equipment cleaning agent
Label: Flammable

Maritime Transport IMDG/GGV Sea

IMDG/GGV Sea Class: 3
UN Number: UN9088
Hazard Code: 33648
Marine Pollutant: No
Technical Name: Power equipment cleaning agent
Label: Flammable

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3
UN Number: UN9088
Hazard Code: 33648
Technical Name: Industrial cleaning agent
Proper Shipping Name: Power equipment cleaning agent
Label: Flammable

15.0 Regulatory Information

Regulations on the Safety Management of Chemical Dangerous Goods (promulgated by the State Council on February 17, 1987), Regulations for the Administration of Chemical Hazardous Materials Safety Regulations ([1992] Regulation No. 677), Regulations on the Safe Use of Chemicals in the Workplace ([1996] Regulation No. 423), for the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods, etc.;

16.0 Other Information

The security sheet has been established on the state of knowledge of ZhuoCong (Shanghai) Environmental Protection Technology Development Co., Ltd. at the scheduled date on this sheet.

We decline any responsibility in case of abnormal use of this product and attract the attention that responsibility of the use of the product lies with the customer.