



SDS Safety Data Sheet

COPPER PROTECTOR

1. Chemicals and corporate identity

Product identification	FUKKOL COPPER PROTECTOR
Product number	100381
Suppliers	KALEN INTERATIONAL LTD Hongkong Kowloon New Po Kong Fong Street No. 10 new treasure Center Building 1 room 6 words
Emergency telephone	+ 852-2420 2444
Fax	+ 852-2485 1418
Manufacturer	KALEN LUBRICANTS TECHNOLOGY(HUI ZHOU) LTD.

2. Risk overview

EU standard classification	F; R11 Xn; R65 Xi; R38 R67
GB 13690-92 Classification of common dangerous chemicals	hird types of flammable liquids
Physical / chemical hazard	Flammable. The material will release the vapor to form a combustibile mixture of gas, if the vapor accumulation is lit will flash fire or explosion. Electrostatic accumulation of the material may cause the discharge to fire.
Health hazard	The invasive route is inhalation, ingestion and transdermal absorption. Health hazards are central nervous system inhibitors. The first cause of excitement and subsequent inhibition. Acute poisoning: acute poisoning occurs mostly in oral administration. Generally, it can be divided into four stages:

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excitement, hypnosis, anesthesia and asphyxia. The patient entered the third or fourth stage with loss of consciousness, enlargement of the pupil, irregular breathing, shock, cardiac failure and respiratory arrest.

Environmental hazard

Toxic to aquatic organisms, may cause long-term adverse effects on the aquatic environment.

Flame burst hazard

This product flammable

Danger sign



3. Composition

Ingredients	CAS #	Proportion
Corrosion inhibitor mixture	-----	6.0-24.0%
Hydrotreating light naphtha (oil)	64742-49-0	76.0-94.0%

4. First aid measures

Inhalation

Using appropriate respiratory protective device, the patient will be transferred immediately, if the patient stops breathing, artificial respiration should be carried out, and the rest is maintained and the medical care is carried out in time.

Skin contact

Wash the place with soap and water.
Take off contaminated clothes. Contaminated clothes should be washed with soap and water and then wear.

Eye contact

To wash the eyelids, with the flow of water or saline. Seek medical assistance

Eating

This product is likely to cause serious damage to the lungs, such as pneumonia, should immediately seek medical treatment, such as vomiting, should continue to keep his head under the thigh and observe whether it is difficult to breathe.



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5. Fire control measures

Fire Extinguisher	Use foam, dry chemical reagent (dry powder), or carbon dioxide (CO ₂) fire.
Hazardous combustion products	Carbide, hydride, water
Flash point (degrees C)	Not listed
Fire extinguishing procedure	Firefighters to wear a gas mask, wearing a full body fire service, in the upper hand to fire. As far as possible the containers from fire to open. Water spray to keep fire cooling container, until the end of the fire. If the containers in the fireground have discoloration or generate sound from the safety relief devices, must be immediately evacuated. Fire extinguishing agent: foam, dry powder, carbon dioxide, sand.

6. Accidental overflow handling measures

High temperature of the material, to avoid fire, Mars, or natural fire, if there is no danger, it is possible to stop and then overflow. With a mop or absorbent material will overflow into the proper container for further processing.

Quickly evacuate the contaminated area personnel to the safe area, and to isolate, strictly limit access. Cut off the fire source. Recommended emergency personnel wear self positive pressure respirator, wear protective clothing for firefighters. As far as possible to cut off the source of leakage, prevent access to sewers, flood channel limited space.

Small leakage	Adsorption or absorption of sand or other non combustible materials. Can also be used a lot of water washing, washing water and diluted into the wastewater system.
Large leakage	Construct a barrierpit to contain; covered with foam, reduce the Vapor Hazard. Explosion proof pump transferred to tankexclusive collector, place the disposal of recycling or shipped to the waste disposal.

7. Operation disposal and storage



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Operating notes

Closed operation, pay attention to ventilation. Operators must be trained in strict compliance with the operating rules. Stay away from fire, heat, smoking is prohibited in the workplace. Use explosion-proof ventilation system and equipment. To prevent vapor from leaking into the air in the workplace. Avoid contact with oxidizing agent. When transporting light light, to prevent damage to packaging and containers.

Mechanical equipment and tools that are prohibited from using the easy to produce sparks.

At the time of filling, we should pay attention to the velocity of flow (not more than 3m/s), and there is a grounding device to prevent the accumulation of static electricity.

Storage precautions

Stored in a cool, ventilated warehouse. Away from fire and heat. The temperature in the warehouse is not more than 30. To prevent direct sunlight. Keep container seal. Should be separate from the oxidant. Storage room lighting, ventilation and other facilities should be used in explosion-proof type, switch located in the warehouse. Equipped with corresponding varieties and quantities of fire equipment. Bottled stacking is not too large, should stay away from the wall, from the top of column, and the necessary fire inspection walkway. Technical measures for fire and explosion prevention in the storage tank. Open tank to summer cooling measures.

8. Exposure control and personal protection

Occupational exposure limit

Temporary database display

Chemical marking symbol



process control

Production process closed, full ventilation. Provide safe shower and eye washing equipment.

Inhalation

Respiratory system protection

Generally do not need special protection, but the working environment of the air concentration than the general situation, can be worn with a filter type gas mask (half mask).



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Personal protection

Body protection Wear anti-static work clothes.
Hand protection Wear general protective gloves.

Its

Smoking is prohibited in the workplace.

9. Physical and chemical properties

Product status	liquid
Appearance and smell	Brown transparent liquid, Mild solvent odor
kinematic viscosity 20°C, mm ² /s	0.8~1.3
Specific gravity 20°C, g/cm ³	0.680~0.690
Antirust period of salt fog	≥72h
Explosion limit (vol)	1.2%~6.7%
Solubility Volatile organic compounds (%) g/l: 0	Insoluble in water, but with organic solvents 0 lbs./gal:0
Copper corrosion not greater than	1a

10. Stability and chemical reaction data

Stability	Stable
Risk aggregation	Will not produce
Avoid measures	Strong oxidant, acid, amine, anhydride
Material attention	No
The risk of material	No



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after decomposition

11. Toxicity data

1. When skin tests are performed on animals, it is found that long-term exposure can cause skin sensitivity, but they are mild or moderate. When drinking, it may lead to diarrhea and vomiting. When you enter the eye, it may cause inflammation.
2. In contact with the product, such as the use of water wash should be no big deal, but also to try to avoid prolonged contact or inhalation of this product.

12. Ecological data

Ecological toxicity

No data display

Environmental degradation

No data display

13. Waste information

Waste method

The empty drum shall be recovered, regenerated or abandoned by the institution of a qualified or executing license, and be careful in any case to make sure that it is in conformity with the national laws and local regulations.

14. Transport information

Transport mode

Transport by ordinary product.

Packing method

Plastic barrels; plastic bottles; Metal bucket

Transportation matters
needing attention

The corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment should be equipped with the corresponding variety and quantity of the transport vehicle.

It's better to transport early and late in summer. The tank (tank) used in transportation should be connected with the chain, and the holes can be arranged in the groove to reduce the vibration and generate static electricity.

With no oxidant edible chemical conventional mixing luck. Transit should prevent accumulation of insolation, rain, high temperature resistant. Should stay away from the fire, heat,



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high temperature zone.

The vehicle exhaust pipe of the vehicle must be equipped with a fire resistance device, which prohibits the use of easy to produce sparks of machinery and equipment and tools for loading and unloading.

15. Regulation information

EU standard classification	Combustible. The classification of the product is carried out according to the test data of the whole or part of the product.
EU label	Symbol: F, Xn
Risk characteristics	R11; Flammable. R65; harmful: If swallowing can cause lung injury. S43; In case of fire, use foam, dry chemical preparation (dry powder) or carbon dioxide S9; Place the container in a well ventilated place. S16; Stay away from fire, please do not smoke. S33; Take ESD preventive measures.
Safety recommendations	S36/37; Wear suitable protective clothing and gloves. S57; Use appropriate containers to avoid environmental pollution S60; This material and its container must be treated with hazardous waste. S62; after eating do not induce vomiting: seek medical advice immediately and show this container or its logo.

16. Other information

Reference:

Change description: No

Other information: The following laws and regulations and standards have made corresponding regulations on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals.:

Law Of The People's Republic Of China On Safe Production. (The tenth meeting of the standing committee of the 12th National People's Congress was adopted in Aug., 31th, 2014)

The Occupational-Disease-Prevention Law Of The People's Republic Of China. (The 24th meeting of the standing committee of the ninth National People's Congress was adopted in Oct., 27th, 2001)



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Environmental Protection Law Of The People's Republic Of China. (The 11th meeting of the standing committee of the seventh National People's Congress was adopted in Dec., 26th, 1989.)

Regulations On The Safety Management Of Hazardous Chemicals. (The 44th executive meeting of the state council adopted the amendment in Feb., 16th, 2011.)

《The safety production license ordinance.》 (The 34th executive meeting of the state council adopted in Jan., 7th, 2004.)

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