FUKKOL

SDS
Safety Data Sheet

ENGINE COOLANT(50:50)

1. Chemicals and corporate identity

Product identification	FUKKOL ENGINE COOLANT (50:50)
Product number	100022
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	----
GB 13690-92 Classification of common dangerous chemicals	Not belong
Physical / chemical hazard	Normal use is not dangerous.
Environmental hazard	The environment is harmful, may cause long-term adverse effects on aquatic environment。
Health hazard	Electrostatic accumulation of the substance may cause a discharge to fire。 Steam can cause drowsiness and dizziness。 The accumulation of steam will flicker or explode if it is ignited。
Flame burst hazard	This product is flammable。

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Danger sign



3. Composition

Ingredients	CAS #	Proportion
Green acid detergent	——	1.0 - 3.0%
Antirust and permeable additives	——	1.0 - 5.0%
1, 2-ethylenediol	107-21-1	20.0 - 40.0%
Amino three ethanol	102-71-6	1.0 - 5.0%
Deionized water	7732-18-5	30.0 - 50.0%

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	Drink 2 to 4 cups of milk or water if the injury is minor. If the victim is seriously injured or has lost consciousness, seek medical attention immediately.

5. Fire control measures

Fire Extinguisher	Do not apply
Hazardous combustion products	NO

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Flash point (degrees C)	Not listed
Fire extinguishing procedure	Do not apply

6. Unexpected 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

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 50. To prevent direct sunlight. Keep container seal. Should be separate from the oxidant. Storage room lighting, ventilation and other facilities

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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 data 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).
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	Green transparent liquid, no special smell
PH	8.0-9.5

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kinematic viscosity 40℃, mm^2/s	1.5～3.0
Specific gravity 20℃, g/cm^3	1.000～1.100
Copper corrosion 100 ℃, 3 h/level ≯	1a
Solubility	Soluble in water, not in organic solvents0
Volatile organic compounds (%) g/l: 0	lbs./gal:0

10. Stability and chemical reaction data

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

11. Toxicity data

Basis of evaluation: The information provided is based on similar product components and toxic data。

Acute toxicity:

Acute oral toxicity: Low toxicity: LD50＞5000mg/Kg

Acute toxicity of skin: Low toxicity: LD50＞5000mg/Kg

Acute respiratory toxicity: Under normal use, Do not think there is a danger of inhalation。

Skin irritation or corrosion: It is expected to feel a slight irritation。Long or continuous contact with the skin, Without proper cleaning, May clog the pores of the skin,Lead oil acne / hair Xiangyan disease.

Eye irritation or corrosion: It is expected to feel a slight irritation。

Respiratory or skin allergy: Inhalation of vapors or powder fogs may cause stimulation。

Mutagenicity of germ cells: There is no danger of mutagenesis。

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12. Ecological data

There is no data on ecotoxicology that specializes in this product。The following information is based on the knowledge of the components of similar products and the preschool age of Ecotoxicology。

Acute toxicity	May cause aquatic organisms emit foul。
Mobility/mobility in soil	For liquid under most environmental conditions。Floating on the surface of the water。If you get into the soil, It will be absorbed by the soil particles and will not be able to flow.
Persistence/degradability	Biodegradation is not expected to be easy。 It is expected that the main components have inherent biodegradability, But this product also contains some components that may remain in the environment。
Bioaccumulation	Components with potential for bioaccumulation。
Other adverse reactions	A product is a mixture of non volatile components, It is not expected to be discharged into the air No ozone depletion is expected, The possibility of photochemical ozone formation or global warming。

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 barrels.
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 conventionalmixing luck。

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Transit should prevent accumulation of insolation, rain, high temperature resistant. Should stay away from the fire, heat, 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	NO Combustible。 The classification of the product is carried out according to the test data of the whole or part of the product.
EU label	----
Risk characteristics	R65; harmful: If swallowing can cause lung injury。
Safety recommendations	S9; Place the container in a well ventilated place. S16; Stay away from fire, please do not smoke. S33; Take ESD preventive measures. 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.)

Disclaimer.:

The content of this material safety data is taken from the source of the company's reliable sources. However, the information provided by the content of these information, the company has not included any guarantee, presentation and implied. For the operation, storage, use and disposal of this product, the environment has exceeded the scope of the company's cognition, and the company does not assume responsibility for any operation, storage, use and disposal of any operation, storage, use and disposal of the products related to this product. This material safety data is prepared for this purpose and can only be used for this product, when the product is used as a component of the other products, and can not be applied to the material safety data.

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