

REFRIGERATION COMPRESSOR OIL NP32

1. Chemicals and corporate identity

Product identification FUKKOL REFRIGERATION COMPRESSOR OIL NP32

Product number 120018

KALEN INTERATIONAL LTD

Suppliers 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

Combustible.

Physical / chemical hazard

Environmental hazard

The material will release the vapor to form a combustible 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. \circ

Harmful: if swallowed, it will cause damage to the lungs.

Steam can cause drowsiness and dizziness.

May stimulate the eyes, nose, throat and lungs.

May cause depression in the central nervous system.

Health hazard

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

Printed in CHINA

The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products for which reason the information in this publication is given without responsibility.



This product is flammable.

Flame burst hazard

Danger sign



3. Composition

Ingredients	CAS #	Proportion
Lubrication anti-wear, anti-rust additives		5.0 - 10.0%
Antioxygen and antifoaming additives		5.0 - 10.0%
Heavy distillate hydrocarbons from dewaxing oil	3642-65-0	35.0 - 55.0%
Synthetic oil	83488-05-5	20.0 - 30.0%

4. First aid measures

Using appropriate respiratory protective device, the patient							
patient stops							
carried out, and							
s carried out in							
s carried							

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

Eye contact	То	wash	the	eyelids,	with	the	flow	of	water	or	saline.	Seek
Eye contact					medic	al a	ssist	anc	e			

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.

5. Fire control measures

Eating



Fire Extinguisher

Use foam, dry chemical reagent (dry powder), or carbon dioxide (CO2) fire.

Hazardous combustion products

Hydrogen, chloride, some phosgene.

Flash point (degrees C)
Fire extinguishing
procedure

nydrogen, chroride, some phosgene

Not listed .

Cut off the "fuel" source, use foam, dry powder compound fire extinguishing, pay attention to the safety of personnel.

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

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.

Operating notes

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

The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products for which reason the information in this publication is given without responsibility.

Printed in CHINA.



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 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

Maximum permissible concentration							
material	Regul	Contact /	Contact /	unit			
	ation	exposure duration	exposure				
	S		limit				
Oil mist	ACGIH	TWA	5	Milligram /			
				cubic meter			
	ACGIH	STEL	10	Milligram /			
				cubic meter			

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.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control are knowledge which affect the use and performance of our products for which reason the information in this publication is given without responsibility.

Printed in CHINA.



Its

Smoking is prohibited in the workplace.

9. Physical and chemical properties

Product status Liquid state

Appearance and smell Light brown clear and transparent, no special smell

kinematic viscosity
40°C, mm²/s

Density 20 °C, g/cm³ $0.84 \sim 0.89$

Flash point °C >180

Pour point °C <-30

Dissolve situation Insoluble in water, can be mixed with mineral oil, organic

solvents.

Copper corrosion not greater than level

1a

10. Stability and chemical reaction data

Stability Stable

Risk aggregation Will not produce

Avoid measures Strong oxidant, acid, amine, anhydride

Material attention Avoid contact with aluminum cans or aluminum and zinc powder

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:

Printed in CHINA

The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products for which reason the information in this publication is given without reasonshills.



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

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.

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.

May cause aquatic organisms emit foul.

For liquid under most environmental conditions. Floating on the Acute toxicity

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.

Mobility/mobility in soil Biodegradation is not expected to be easy.

> It is expected that the main components have inherent biodegradability, But this product also contains some

Persistence/degradability components that may remain in the environment.

Components with potential for bioaccumulation. Bioaccumulation

A product is a mixture of non volatile components, It is not

expected to be discharged into the air

Other adverse reactions 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.

Printed in CHINA.



Packing method

Plastic barrels; plastic bottles; iron.

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.

Transportation matters needing attention

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, 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.

Irritation. 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

R65; harmful: If swallowing can cause lung injury. R67: Steam can cause drowsiness and dizziness.

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

Printed in CHINA



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)

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.)

 \langle The safety production license ordinance. \rangle (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.

Release date: May, 1st, 2020