

Safety Date Sheet

Heating conduction oil N32

SDS No. : 20200525

Version : 4.0

1st.Identification of the substance and of the company

Product Name	Heating conduction oil	Product code	N32
Product Number	N/A	Packing specification	In bulk
Supplier	JETLITER OIL&CHEMICAL MAUFACTURE CO.,LTD OF SHUNDE	Address	NO.16, NANDI SECOND ROAD ,RONGGUI ,SHUNDE DISTRICT, FOSHAN CITY , GUANGD PROVINCE,CHINA
Manufacturer	JETLITER OIL&CHEMICAL MAUFACTURE CO.,LTD OF SHUNDE	Address	NO.16, NANDI SECOND ROAD ,RONGGUI ,SHUNDE DISTRICT, FOSHAN CITY , GUANGD PROVINCE,CHINA
Contact	Mr. Luo	Telephone	0757-23617610
Fax no.	0757-28301728	Emergency telephone number	13702264286

2nd.Hazards identification

2nd.1.1 : Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008	Not hazardous
Physical hazards	Based on available data, the classification criteria are not met
Health hazards	Based on available data, the classification criteria are not met
Environmental hazards	Based on available data, the classification criteria are not met

2nd.1.2 :Hazards identification of proper use of this product (written in accordance with GHS regulations)

Classification:	Non-hazardous
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GHS Label Element Symbol	No symbol	
Signal Word	No signal word	
GHS Hazards Statemen	Physical hazards	Not classified as hazardous in accordance with GHS
	Health hazards	Not classified as hazardous in accordance with GHS
	Environmental hazards	Not classified as hazardous in accordance with GHS
GHS Precautionary Statements	Preventive measures	Not available
	Response	Not available
	Safe storage	Not available
	Disposal	Not available
	Other Hazards Not Affecting the Classification	Not classified as flammable, but will burn

2nd2 : Hazards indentification of incorrect use of this product

Health	Long-term skin contact may cause skin allergies; Inhalation may cause nausea; Ingestion may cause diarrhea and damage the digestive organs.
Environment	Difficult to decompose may harmful to soil and plants.
Physical/chemical	Open flame can ignite.

3rd.Composition/information on ingredients

Ingredients	Mineral oil CAS No.8042-47-5 98.5~99%,high temperature detergent 0.25~0.4%,high temperature antioxidant 0.5~0.75%,anti-rust, anti fouling agent 0.05~0.1%, pour point depressant 0.2~0.25%,high temperature antifoaming agent 0.005%.
Performance	Suitable for the heat conduction of oil-charge heater system, high efficient heat transfer, well high-temperature oxidation resistance, long service life.
Hazardous substance content (%)	None

4th.First aid measures

General Information		Not a health hazard if used under normal conditions
First aid methods for different exposure methods	Inhalation	Stop operation, remove casualty to a well ventilated place.
	Skin contact	Wash thoroughly with weak alkaline cleaner.
	Eye contact	Rinse eyes thoroughly with plenty of water, and immediately send to hospital for treatment.
	Ingestion	Immediately send to hospital cleaning the stomach.
Notes to Physician	Causes chemical pneumonia if inhaled into the lungs.Prolonged or repeated exposure to it may cause dermatitisInjuries due to high pressure injection require immediate surgical treatment and / or steroid therapy in order to minimize tissue damage and loss of function.Swallowing can cause diarrhea and damage digestive organs.	
Protection for first aid personnel	Wear protective gloves to avoid contact with contaminants.	

5th.Firefighting measures

Evacuate all non-emergency personnel from the fire area.	
Specific hazards	1.Airborne solid and liquid particulates and a complex mixture of gases(smoke) 2.Carbon monoxide. Unidentified organic and inorganic compounds
Appropriate Extinguishing Media	Small-size fires: dry powder fire extinguisher; Large fires: carbon dioxide, foam, Small-size fires: dry powder fire extinguisher; Large fires: carbon dioxide, foam .
N.A. Extinguishing Media	Water (do not use water jets)
Protection of Fire Fighters	Wear breathing apparatus and protective gloves, clothing.

6th.Accidental release measures

Personal Precautions	<ol style="list-style-type: none"> 1.Keep personnel away from the area until the contaminated area is fully cleaned. 2.Make sure the clean-up is done by trained person. 3.Wear appropriate personal protective equipment. 4.Avoid contact with skin and eyes
Environmental precautions	<ol style="list-style-type: none"> 1. Do not let the waste oil flow into sewers, rivers, soil. 2. Prevent it from spreading or entering drains, ditches or rivers with sand,earth or other appropriate barriers. 3.preserved in sealed containers
Cleaning up methods	<ol style="list-style-type: none"> 1.Set obstacles with sand, earth or other blocking materials to prevent spreading. 2.Reclaim liquid directly or store it in an absorbent. 3.Absorb the residue with clay, sand or other suitable absorbent, and then properly dispose it.
Additional Recommendations	Report significant spills that cannot be handled to the local authorities.

7th.Handling and storage

General Precautions	<ol style="list-style-type: none"> 1. If there is a risk of inhalation of vapors, mists or fumes, use local exhaustand ventilation system. 2. Properly dispose any contaminated rags or cleaning materials to prevent fire. 3. It will contribute to the development of an effective control system forthe safe handling, storage and disposal of this product to includeinformation of this SDS into the local circumstances risk assessment.
Precautions for Safe Handling	<ol style="list-style-type: none"> 1. Avoid prolonged or repeated contact with skin. 2. Avoid inhaling its vapor and (or) fumes. 3. Wear safety footwear and use proper handling tools when handling theproduct in drums.
Conditions for Safe Storage	<ol style="list-style-type: none"> 1. Store in airtight containers in a cool and well-ventilated place. 2. Use properly labeled and closeable containers. 3. Storage temperature: -15 ~ 50 °C for long-term storage (more than 3months); -20 ~ 60 °C for short-term storage.
Unsuitable Material	PVC
Other Recommendations	Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8th.EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits					
Chemical Product	Source	Type	ppm	mg/m ³	Mark
Mineral oil mist	ACGIH	TWA (inhalable fragments)		5mg/m ³	
Biological Exposure Index (BEI)			No data available for reference.		
Engineering controls	1.Use a properly designed and maintained mechanical ventilation system such as an integral ventilator or local exhaust. 2.With local exhaust and necessary process isolation to control the amount of droplets and steam. 3.Supply sufficient fresh air to supplement the air exhausted. 4.May required to treat divergent exhaust gases to avoid environment contamination.				
Respiratory protection	If there's oil mists during working, a cotton mask should be worn.				
Hand protection	In order to obtain suitable chemical protection where hands may contact the product, gloves conforming to the relevant standards (Europe: EN374; US: F739) and made of PVC, neoprene or NBR should be used.				
Eye protection	If splashes are likely to occur, wear safety goggles or full face masks.				
Skin and body protection	Wear a waterproof apron made of polyvinyl chloride, neoprene, or nitrile rubber.				
Thermal Hazards	Not applicable				
Hygiene measures	1.After working take off the contaminated clothing as soon as possible, only can re-use or discard after cleaned up, and must inform the laundry the pollutant hazards. 2.Smoking or eating in the workplace is strictly prohibited. 3.After handling must wash hands thoroughly. 4.Keep the workplace clean.				
Monitoring Methods	Monitor the concentration of substances in worker's breathing area or the general workplace, in order to confirm compliance with OEL and adequacy of exposure controls.				

Environmental Exposure Controls	Reduce environmental emissions. Environmental assessment must be carried out to ensure compliance with local environmental regulations.
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9th. Physical and chemical properties

Physical state	Transparency liquid	Color	Pale yellow
Odour	negligible	Density (20°C)	0.860g/cm ³
viscosity (40°C)	28~35mm ² /s	Vapour pressure (20°C)	<0.5Pa at 20°C
Flash point (GB/T 3536)	200°C	Pour point (GB/T 3535)	-15°C
Boiling point/range	340~450°C	Autoignition Temperature	> 320 °C
Solubility in water	insoluble	PH	5
Acid value mg KOH/g	≤0.03	Water-soluble acid or alkali	no

10th. Stability and reactivity

Chemical Stability	Stable
Storage stability	Stable in normal conditions.
Possible Hazardous Reactions	No data available for reference
Conditions to Avoid	Open flames, Extreme temperatures and direct sunlight
Materials to Avoid	Strong oxidants
Hazardous Decomposition Products	No hazardous decomposition products will be produced under normal storage conditions. But combustion may generate CO, CO ₂ and other oxides.

11th.Toxicological information**Data of Toxicological Pathology Test Results:**

Basis for Assessment	The information provided is based on components and the toxicology data of similar products.	
Likely Routes of Exposure	Skin and eye contact are the main routes of exposure although exposure may occur through ingestion or the following accidents	
Acute Toxicity	Acute oral toxicity	Low expected toxicity: LD50> 5000 mg / kg, rat.
	Acute dermal toxicity	Low expected toxicity: LD50> 5000 mg / kg, rabbit.
	Acute inhalation toxicity	Inhalation hazard is considered inexistent under normal conditions of use.
Skin Corrosion/ Irritation	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning may cause clogging of the pores of the skin, resulting in greasy acne / folliculitis or other diseases.	
Serious Eye Damage / Irritation	Expected to be slightly irritating.	
Respiratory Irritation	Inhalation of vapors or mists may cause irritation.	
Respiratory or Skin Sensitization	Not expected to be a skin allergen	
Inhalation Hazard	Not considered as inhalation hazardous.	
Germ Cell Mutagenicity	Not considered a mutagenic hazard.	
Acute poisoning	No	
Chronic poisoning	Inhalation may cause nausea, swallowing may cause diarrhea, damage to digestive organs.	
Carcinogenicity	The product contains various types of mineral oils. Animal skin-applying tests show that these mineral oils are not carcinogenic. Highly refined mineral oils are not classified as carcinogenic by the IARC. It is unknown whether other components are carcinogenic.	

Reproductive / Developmental Toxicity	No expected hazards.
Specific Target Organ Systematic Toxicity:	No expected hazards.
Additional Information	Used oils may contain harmful impurities accumulated during use. The concentration of such impurities depends on use, and there may be risks to health and the environment in disposal. ALL used oil should be handled with caution and skin contact should be avoided as much as possible. Animal tests show that sustained contact with used engine oil may cause skin cancer.

12th .Ecological information

Basis for Assessment: There is no specific ecotoxicological data to determine this product. The above information is provided on the basis of components and ecotoxicology of similar products.	
Acute Toxicity	Poorly soluble mixture. May cause aquatic organisms to give out foul smell; expected to be practically non-toxic:LL/EL/IL50 >100 mg/l (for aquatic organisms)(LL/EL50 is expressed as the nominal amount of product; moisture test is required) When the concentration is below 1mg/L, the mineral oil is not expected to cause any chronic effects to aquatic organisms.
Microorganisms	No data available for reference
Liquidity	Liquid under most ambient conditions; float on water.
Persistence / Degradability	Expected to be not readily biodegradable. Major components are expected to be inherently biodegradable, but this product contains components that may persist in the environment.
Bioaccumulative Potential	Contains components with bioaccumulative potential.
Other Adverse Reactions	The product is a mixture of non-volatile components and is not expected to be discharged into the air a lot. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13th .Disposal considerations

It is the responsibility of waste producers to identify the toxicity and physical properties of the substances produced in order to develop appropriate waste classification and disposal methods in line with the relevant regulations.	
Chemical Disposal	It should be recycled or reused as much as possible.Do not dispose into the environment, drains or water courses.
Container Disposal	In accordance with the current regulations in force, it should be preferably disposed by a recognized waste collector or contractor.
Local Legislation:	Disposal method should conform to applicable regional, national and local laws and regulations.

14th . Part of transport information

Areas (as per ADR classification): Not regulated		
Not classified as hazardous under ADR regulations.		
International shipping regulations	IMDG	Not classified as hazardous under IMDG regulations.
	IATA	Not classified as hazardous under IATA regulations.
	DOT49CFR	Not classified as hazardous under DOT49CFRregulations.
China shipping regulations	China Dangerous Goods Name Code	Not classified as hazardous under China Dangerous Goods Name Code

15th . Regulatory information

China Classification	According to the classification in "Classification and Marking of Commonly Used Dangerous Chemicals" (GB 13690-1992), this product is not a dangerous product.
EC symbol	No need to attach "danger symbol"
EC Hazard Warning	uncategorized
EC Safety Warning	uncategorized
Other information	GB 6944-2005: Classification and name code of dangerous goods GB / T 16483-2008: Contents of chemical safety technical specification and project sequence catalog GB 13690-1992: Classification and marking of commonly used hazardous chemicals GB 12268-2005: List of dangerous goods GBZ 2.1-2007: Workplace Harmful Factors Occupational Exposure Limits Chemical Harmful Factors

16th . Other information

SDS Version	4.0
SDS Effective Date	2020.5.26
SDS Expiration date	This MSDS is valid for 5 years in accordance with relevant Chinese regulations
SDS Commencement	All handlers of this product should be familiar with the information contained herein.
Prepared company	Jetliter oil & chemical manufacture Co. Ltd. Of Shunde
Prepared by	YeQiang Luo
Prepared date	May 26, 2020
Disclaimer	Above information is based on our current knowledge, detailed and correct. But it is intended to describe the product for the purposes of health, safety and environmental requirements only, while the product is limited to commercial/industrial production processes and applications. It should not therefore be construed as guaranteeing any specific responsibilities.

