MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/ Chemical Name:	Top-grade Grease 2#
General use:	Industrial lubricating grease
Product Code:	N/A
Manufacturer/Supplier:	
Tel.:	
Fax.:	
Emergency tel.:	
Revision Date:	22th MAR. 2022

2. HAZARDS IDENTIFICATION

Health hazard	No specific hazard when used as intended, prolonged o	
	repeated exposure may cause dermatitis. Used grease	
	may contain hazardous foreign materials.	
Fire and explosion	Not defined as inflammable, but it is still flammable.	
hazard		
Environmental Hazard	Not defined in the classification of environmental hazard.	
Infection approach	Not applicable.	

3. COMPOSITION AND INGREDIENTS

Ingredients

Description of	A kind of grease that containing highly refined mineral oil
ingredients	and additives. According to IP346, this highly refined
	mineral oil contains<3% (w/w) of DMSO abstract.

4.FIRST AID MEASURES

Symptom and effect	Not expected to cause serious hazard when used as intended.
Inhalation	Not expected to cause faint, if occurs, move the victim to fresh air. If discomfort persists, contact a physician.
Skin contact	Take off the contaminated clothes, wash effected skin by using water and soap. If discomfort persists, contact a physician. When using high-pressure equipment, this product may be injected into subcutaneous ski. In case of it, please send the injured to hospital for medical treatment immediately, do not wait in case of symptomatic deterioration.
Eye contact	Flush with large amount of water. If discomfort persists, contact a physician.
Ingestion	Wash mouth and get medical advice. Do not induce vomiting.
Information for doctor	Symptomatic treatment. Inhalation to lung may cause chemical pneumonitis. Prolonged or repeated exposure may cause dermatitis. Injury of high-pressure injection requires immediate surgical treatment and/or systemic corticosteriods treatment, so as to reduce the organization injury and defunctionalization.

5. FIRE FIGHTING MEASURES

Make all non-first-aid personnel leave fire area.

Hazardous	Burning may cause complicated mixture composed of		
characteristics	liquid, solid particles and gas, including carbon monoxide		
	and unconcerned organic and inorganic compound.		
Suitable extinguishing	Foam and dry chemical, carbon dioxide; sand or soil can		
agents	only be used for small fire.		
Unsuitable	Do not spray water. Considering the environment, should		
extinguishing agents	avoid using halon fire extinguisher.		
Protective equipment	Suitable protective devices, including closing to the		
for firefighters	ignition source in sealed space, must wear breathing		
	equipment.		
Hazards combustion	Not applicable.		
products			

6. ACCIDENTAL RELEASE MEASURES

Avoid contacting spilled or released material. Regarding selection guide about personal protective equipment, refer to Section 8 of this MSDS. For disposal information, please refer to Section 13.

Protective measures	Avoid contacting with skin and eye. PVC, Neoprene or			
	nitrile rubber gloves. Rubber long safety shoes, PVC			
	clothes and trousers. If possible splashing, wear safety			
	glasses or full face mask.			
Environmental	Use sand, soil or other suitable obstacles to prevent it			
precautions	expand or enter into drain, sewage or river. If fail to block			
	it, inform local government authority.			
Emergency processing	Small amount of leakage: put it into suitable labeled			
	container, and dispose and recycle it according to local			
	regulations.			
	Large amount of spilling: same as small leakage.			

7. HANDLING AND STORAGE

Precaution for safety	If there is risk of inhalation of oil vapor, oil mist or particles
handling	in air, local ventilation should be adopted. Avoid
	contacting with eyes, skin and respiratory system. When
	processing product in cylinder, wear safety shoes and use
	suitable process equipment to prevent spilling. Texture,
	paper and other materials absorbing oil are all fire risks,
	which should be processed timely and safely to avoid
	accumulation texture. Besides detailed suggestion to
	health, safety and environment control, we must conduct
	rick assessment, so as to help decide control measures
	that suitable to local conditions.
Precaution for storage	Store in a cool, well-ventilated place. Use right, labeled
	and sealed container. Avoid direct sunlight, heat and
	strong oxidant.
Temperature for	Min.0°C, max.50°C.
storage	
Materials for use	Container or inner layer of the container, use low-carbon
recommended	steel or high-density polyethylene.
Unsuitable material	Container or inner layers of the container, avoid use PVC.
Further information	Polyethylene container should not be placed in high
	temperature, because it may cause disformation.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Maximum acceptable concentration					
Substance	PEL	Duration of	Limitation of	Unit	Note
Substance	FEL	contact/exposure	contact/exposure		Note

Oil mist, mineral oil	ACGIH	TWA	5	5 mg/m ³	
	ACGIH	STEL	10	5 mg/m ³	

Exposure information	Due to semisolid consistence of product, it is impossible to	
	cause mist and dust.	
Personal protection	If there is risk of inhalation of oil vapor, oil mist or particles	
	in air, local ventilation should be adopted.	
Respiratory protection	Usually not required. If oil mist cannot be controlled,	
	should be equipped with respirator with function of	
	steamed tanks with filtration of particles.	
Protection of hands	PVV or nitrile rubber gloves	
Eye protection	In case of spilling, please wear safety glasses or face	
	mask.	
Body protection	Reduce all kinds of skin contact. Should wear work	
	clothes or oil-proof shoes. Wash work clothes and	
	underwear periodically.	
Environment exposure	Reduce release to environment. Must conduct	
control	environment assessment to ensure it conform to the local	
	environmental regulation.	
Monitoring method	Not applicable.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Semisolid uniform red factice in room temperature.
Feature of mineral oil.
No data available.
No data available.
No data available.
$>$ 220 $^\circ\!\!\mathbb{C}$ (COC) (Based on mineral oil)
No data available.
>1
Classic
Nearly 920kg/m ³ (15 °C / 59 °F)
negligible
Low Pow. It is estimated no greater than 6.
>200℃
> 200 ℃

temperature	
Dropping point	>200°C

10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Extreme temperature and direct sunlight.
Substance to avoid	Strong oxidant, strong acid and strong alkali, and strong corrosion.
Decomposition product	It is not expected to form hazardous decomposition product in normal storage process.
Polymerization hazard	Not applicable.

11. TOXICOLOGICAL INFORMATION

Basis for assessment	No toxicological data for this product. Information provided
	is based on ingredients and toxicological knowledge of
	similar product.
Acute toxicity	
Oral acute toxicity	LD50 >2000mg/kg (estimated).
Skin acute toxicity	LD50>2000mg/kg (estimated)
Respiratory acute	No inhalation hazard in normal use.
toxicity	
Skin irritation or	May cause mild irritation.
corrosion	
Eye irritation or	May cause moderate irritation to eye (but the severity is
corrosion	not enough for classification).
Respiratory or skin	If inhale vapor, may cause mild irritation to respiratory
sensibility	tract.
Germ cell mutagenicity	Not considered with risk to induce organism mutagenicity.
Carcinogenicity	The product takes base oil as mineral oil, researches
	about covering of animal skin show that this kind of mineral
	oil will not cause cancer. No other ingredients are related
	with cancer.
Reproductive toxicity	No data available.
Specific targeted organ	No data available.
system toxicity	
Single exposure	
Multi exposure	
Inhalation hazard	No hard of inhalation in normal use.

Additional information:

Long-term and or repeated exposure product containing mineral oil will cause skin degreasing, especially in the condition of increasing temperature, which will cause irritation and dermatitis, which especially happen in condition of insufficient personal hygiene. Avoid skin contact as possible as you can. If this product is used for high-pressure subcutaneous injection, and not clear by surgical treatment, may cause local gangrene, and used grease may contain hazardous foreign matters accumulated in the process of using, and its concentration depends on usage condition, it will cause hazard to health and environment in processing. All used grease must be treated cautiously, and avoid contact with skin as possible as you can.

Basis for assessment	Ecological pathology data of this product is not
	determined, and the basis of all information is
	knowledge and ecotoxicity of ingredients of similar
	products.
Ecotoxicity	Insufficiently soluble mixture may cause the aquatic
	organism absorb external attachment. It is expected to
	be harmful to the aquatic organism: LL/EL50
	10-100mg/L (LL/EL50 means the namely quantity
	required by extract of water test.
Mobility in soil	It is semisolid in most environmental conditions. Float on
	the river. If mix with soil, it will be absorbed by soil
	particles.
Persistence and	It is expected not easy for degradability. The main
degradability	ingredients are expected for degradation naturally, but
	this product may contain ingredients that keep in
	environment for long term.
Bioaccumulation	Ingredients contained may have bioaccumulation.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Disposal method	Place in a suitable, clearly labeled container, and dispose and recycle according to local regulation. The contractor can process this kind of product satisfactorily, and their ability should be known in advance. Do not let
	waste oil pollute soil, water or environment.
Product disposal	Refer to disposal method.
Disposal of container	Should be hand it to certified collector or contractor and
	recycle and dispose them according to laws.
Feature of waste	Waste mineral oil.

14.TRANSPORT INFORMATION

Transportation	No hazard in transportation according to UN, IMO and
information	IATA/CAO regulations.
ADR/RID classification	Void.
ADR/RID packing group	Void.
IMDR hazard	Void.
classification	
IMDG packing group	Void.
IATA/CAO hazard	Void.
classification	
IATA/CAO packing	Void.
group	
ADG special shipping	Void.
information	

15. REGULATORY INFORMATION

EC sign	None.
Danger words	Note classified.
Safety words	Note classified.
Other information	GB 6944-2005:Classification and code of dangerous goods
	GB/T 16483-2008:Content and order of material safety data
	sheet for chemical products
	GB 13690-1992: Classification of commonly used
	dangerous chemicals and sign
	GB 12268-2005: Name list of hazard cargo
	GBZ 2.1-2007:Occupational exposure limit of harmful factor
	in workplace

16.OTHER INFORMATION

Other information: information in this MSDS is worked out based on our current knowledge, the purpose of it is stating this product in terms of health, safety and environment regulations. This information cannot be considered as guarantee of performance of this product.

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