

mineral oil and petroleum additives.

COMPONENTS	CAS NUMBER	EC NUMBER	AMOUNT,wt%
Highly refined mineral base oil	Mixture	-	99.7 - 100 %
DBPC	128-37-0	204-881-4	0-0.3

SECTION 4 FIRST AID MEASURES

Eye	No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin	No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion	No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.
Inhalation	No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

Special hazards:	This product has a flash point over 150°C and it belongs to non-dangerous products. When it meets fever case, the fire and strong oxidants, it can cause a fire.
Fire fighting methods and extinguishing agents:	Spray, foam, fire extinguishers, carbon dioxide fire extinguisher, dry powder fire extinguisher
Combustion Products:	Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.
Prohibit the use of fire extinguishing agent	Do not water.
Special protective equipment for firefighters	Must wear breathing apparatus in confined spaces when close to the ignition point.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Cut off the fire source, immediately contact the operating staff. Keep unrelated people rapidly evacuating to safe areas and isolation. As far as possible to cut off the source of leakage, prevent entering into sewers, drains, water and space.
Operating staff protective measures:	Avoid contacting with skin and eyes.
Environmental protection measures:	Before operating staff arrive at the scene, as much as possible to make the spilled material under control. For a small amount of leakage, use sawdust, sand, soil or other adsorbent to collect leaking liquid and place it in a sealed, liquid-proof container, waiting to be processed; For a large number of leakage, build a causeway or dig to

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collect it, Ensure that it does not flow into the sewers, rivers, water and lowlands. Place spilled material in appropriate container for disposal. Report to relevant departments when the soil and plant was polluted.

Eliminate method:

For a large number of leakage, Pump it into a container with a vacuum pump; For a small amount of leakage, use sawdust, sand, soil, oil-absorbing cotton or other adsorbent to prevent proliferation and load it into the sealed container for processing; For land leakage, take protective measures and cut off the sources of pollution, reduce to a minimum for the pollution of surface water; For waterway leakage, Immediately use the oil boom to prevent the loss of oil, warn the surrounding vessel and, when necessary, use suitable dispersants. if significant spillages can not be processed, should inform the local authorities.

SECTION 7 HANDLING AND STORAGE

Handling:

General Precautionary Measures:

Avoid long or repeated contact with skin, if contact, thoroughly wash it. If you are at risk of inhaling steam, spray or smoke, Please use local exhaust ventilation device. When transport, please lightly touch it to prevent the package and containers destroy.

Safely handling attention:

Operators must learn special trainings and must strictly comply with regulations. Avoid contacting with oxidant. Equipped with enough fire equipments and leak emergency equipments. When loading or unloading 200L bottle products, you should wear protecting shoes. Empty containers may leave hazardous substances.

Storage condition:

Keep the container sealing, do not store it into open container or container without labels. Keep it cool, dry and ventilate. Keep it from strong oxidant, fire, heat source and inflammable. Store it in normal temperature. Empty container may leave partly products, do not cut or weld, do not leave it in fire or high temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 -C50)	ACGIH	5 mg/m ³	10 mg/m ³	--	--
Highly refined mineral oil (C15 -C50)	MAC	--	--	--	--

Engineering Controls:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for

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Respiratory Protection: protective gloves include: Neoprene, Nitrile Rubber.
 No respiratory protection is normally required. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material..If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance:	transparent oil liquid, colorless to pale yellow
Odor:	Petroleum odor
pH:	Not Applicable
Melting point:	Not applicable
Pour point:	-35 °C
Initial Boiling Point:	Not applicable
Flash point:	160 ° C (closed cup)
Explosion limit:	no data
Vapor pressure:	<.0.5 MPa @ 40 °C
Vapor density:	> 1 (Air = 1)
Density:	845kg/m3 (20 ° C)
Solubility:	insoluble in water
Octanol / water partition coefficient:	> 6 (estimated)
Auto-ignition temperature:	> 270 ° C
Decomposition temperature:	> 320 ° C
Kinematic viscosity:	9.0 mm/s2-10.0mm/s2 at 40 ° C

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products:	None known (None expected)
Hazardous Polymerization:	Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

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Eye Irritation:	The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin Irritation:	The skin irritation hazard is based on evaluation of data for similar materials or product components.
Skin Sensitization:	The skin sensitization hazard is based on evaluation of data for similar materials or product components.
Acute Dermal Toxicity:	The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
Acute Oral Toxicity:	The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
Acute Inhalation Toxicity:	The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3). During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	In the long time penetration, the material may result in ecotoxicity.
Persistence and degradability	This material is not expected to be readily biodegradable.
Potential bioaccumulation	This material has bioaccumulation potential component.
Mobility in soil	The material will be adsorbed to soil and not be mobile.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

In the process of land, sea and air transport, the product is not classified as a dangerous substance

UN Dangerous Goods Code:	Not Applicable
UN Shipping Name:	Not Applicable
UN Hazard Classification:	Not Applicable

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Packing group: Not Applicable
Marine pollutant: Not Applicable

SECTION 15 REGULATORY INFORMATION

According to Chinese relevant regulations, the product is not a hazardous chemicals.

Chinese chemical safety regulations Management Ordinance of Dangerous Chemicals (March 2, 2011 published by the State Council)
 Safe use of chemicals in the workplace ([1996] Ministry of Labor published No. 423)
 GB 6499-2005 Dangerous Goods Classification and Name ID
 GB/T 16483-2008 Material Safety Data Sheet Content and order
 GB 13690-2009 chemical classification and hazard communication of General Principles
 GB 12268-2005 Dangerous Goods
 GB 15258-2009 General rules for preparation of precautionary label
 GBZ 2.1-2007 Workplace Hazardous Occupational exposure limit harmful chemical factors
 All the regulations made corresponding provisions for the safe use, production, storage, transport, handling and otherwise of hazardous chemicals.

SECTION 16 OTHER INFORMATION

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ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	STEL - Short-term Exposure Limit
CAS - Chemical Abstract Service Number	ACGIH - American Conference of Governmental Industrial Hygienists
IMO/IMDG - International Maritime Dangerous Goods Code	API - American Petroleum Institute
MSDS - Material Safety Data Sheet	CVX - Chevron
NFPA - National Fire Protection Association (USA)	DOT - Department of Transportation (USA)
OSHA - Occupational Safety and Health Administration	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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