# Material Safety Data Sheet(MSDS)

## 一、Chemical product and company identification

Trade Name: HFV-TWPump Oil
Supplier: Shanghai HuiFeng Petroleum & chemical CO .,Ltd
Address: 75-1 Pan Yu Road, Shanghai CN
Telephone: 021-62121126 Fax:021-62513557
Emergency Telephone: 021-52397633

## 二、Composition/Information on ingredients

Chinese and English name: HFV-TW 专用油/ HFV-TWHigh Va uum Oil
Molecular formula: $C_nH_{2n+2}$
Hazardous ingredients: No

## 三、Hazards identification

Health hazard effect: 1. Long contact may cause mild dermatiti
2. Drawing into the lungs can induce chen ical pneumonia or pulmonary edema

Environmental impact: 1. Slight water contaminant
2. Possoble harmful effect to water and u iderwater environment

Physical and chemical hazard: 1. Noninflammable matter
2. Static electricity may ignite va or to bring hazard

Fire hazard: Produce water, carbon monoxide or carbon dioxide

Special hazard: No

## 四、First aid measures

First aid measures of different exposed approach:

Inhalation: 1. Remove sources of pollution or the patient be mc ved to the fresh air
2. If symptoms persist obtain medical advice.

Skin contact: 1. Avoid directly contacting and use watertight pi otective gloves as possible
2. Washout affected part with slowly flowing wa m water as quickly for 20 minutes
3. Wash clothes, shoes and leather decorations ( vatch band , leather belt) that has been remove the contamination and discard

Eye contact: 1. Washout thoroughly with water for 5minutes til clear away the contamination.
2. Immediately seek medical advice

Ingestion: 1. Move to the intake
2. Immediately seek medical advice

## 五、Fire fighting measures

Extinguishing Agent:
1. Never use strong water jets.
2. Dry powder, sand etc.

Abnormal combustion:
1. Produce smother. Use relative respiratory protection equipme nt and put out a fire.

六、Accidental release measures

1. Absorb spills on inert material such as perlite, vermiculite, sand or dirt
2. Overflow drain to water can use oil skimmer to rake off oil
3. On the occasion of security clearance, prevent or reduce leakage

七、Handling and storage

Handling: 1. Periodic measurement of electrostatic capacity
2. Operate in a well ventilated given area and adopt minimum
3. Prepare emergency equipment that can put out a fire and treat leakage at any moment
4. Remove all things that could cause fire .Avoid mist
5. Use approved transportable container.
6. Paste warning Mark "No smoking " in workaround
7. Use ventilation system and electrical equipment non sparking and grounded to prevent it from becoming the source of ignition

Storage: 1. Keep container closed when not in use .
2. Store only in a well-ventilated, cool area.
3. Keep away from open flame.
4. Bulk tank to ground, equipotential connection while transfer and load
5. Keep in a cool, dry, well-ventilated place and no direct exposure from sun.
6. Keep away from heat, flame and incompatible matter
7. Store in a labeled proper container and avoid being damaged
8. Keep unused and empty vessel closed
9. Store in proper and qualified storage tank, room, cabinet and building
10. Temperature and pressure: NPT(normal pressure and temperature)

八、Exposure controls

Engineering controls: 1. Use local exhaust or process enclosed Because of their volatile and flammable nature
2. Used alone will not produce sparks and the grounding of the ventilation system
3. Exhaust port directly to outside
4. Supply plenty of fresh air to add that out of the exhaust system

Personal protection

Respiratory protection: Use when steam appears.

Eyes protection: Safety glasses (with side shields)

Skin protection: Use chemical resistant gloves for prolonged skin contact. Nitrile coated apron or clothing.

Other protections: No

Sanitary measure:

1. Take off contaminated work clothes .Put it on till wash clean or throw away
2. Wash hands and face after treating the products
3. Coat skin protection ointment
4. No smoking and food in the workplace
5. Keep operational field clean

九、Physical and chemical properties

| | |
|---|---|
| State: Liquid | Odor: Odorless |
| Color: Pale yellow to colorless | Pour point: -9 C |
| Decomposition temperature: - | Flash point: 215 ° C |
| Explosive limits: No | 40° C kinematic viscosity: 41.4-50.6mm$^2$/s |
| Solvability: not soluble in water | |

十、Stability and reactivity

Chemical stability: Stable

Possible hazardous reaction in special condition:

Hazardous polymerization: Winn not occur

Material to avoid: Heat, sparks, flames and other sources of ignition.

Hazardous decomposition products: carbon dioxide, carbon monoxide, water

Other information: No

十一、Toxicological information

Non-Toxic

Routes of entry: Inhalation, skin and ingestion

Inhalation: may cause irritation of respiration system

Skin contact: long-term exposure can cause irritation of skin

Ingestion: may cause irritation of digestive system

十二、Ecological information

Ecological testing has not been conducted on this product

十三、Disposal consideration

Take care in use and storage especially: Avoid skin-contact for a long time and inhalation of volatility vapor and mist. Thoroughly clean the working clothes. Keep container closed. Eliminate all harm such as flame, sparks.

十四、Transportation information

Means of delivery: Because railway oil tanker, oil tanker, oil tanker workers, barges, oil buckets Can exist static gather danger, relevant grounding measure should be taken.

Transport temperature: Normal temperature

Loading temperature: Normal temperature

十五、Regulatory information

Accordance with local regulations about health, sanitation and safety of chemicals.

十六、Other information

The product contained herein is used as a recommendation. If there are other applications, please telephone to the maker