


SAFETY DATA SHEET (SDS)

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Manfrost LH-30
Other Name: Alkyl substituted aromatic hydrocarbons Heat Transfer Fluid
Manufacture: Jiangsu Manto Chemistry Room B, Floor 11, Building No.1, Beitanghe Road No.8, Hengsheng Science & Technology Park, Tianning District, Chanzhou City, Jiangsu Province,China Tel: +0086-0519-85760560

2. Hazards identification

GHS hazard category	
Aspiration hazard	Category 1
Specific target organ toxicity - single exposure:	Category 3
anesthetic effect	
GHS label elements	
Pictogram	
Signal word	Dangerous
Hazard statement	
H304	Swallowing and entering the respiratory tract may be fatal
H336	May cause drowsiness or dizziness
Precautionary statements	
Preventive measure	
P261	Avoid inhaling dust/smoke/gas/mist/vapor/ask mist
P272	Contaminated work clothes are not allowed to be taken out of the workplace
Incident response	

P312	If you feel uncomfortable, call the poison emergency center/doctor
P331	Do not induce vomiting
P301+P310	If accidentally swallowed: Immediately call the poison emergency center/doctor
P304+P340	If accidentally inhaled: Move the person to a place with fresh air and maintain a comfortable breathing position
Safe storage	
P405	The storage area needs to be locked
P403+P233	Store in a well ventilated area and keep the container sealed
Waste disposal	
P501	Dispose of contents/containers in accordance with local/regional/national/international regulations

3. Composition/information on ingredients

Component name	hydrocarbon
Content	>98.5%
CAS No.	68551-20-2

4. First aid measures

Description of emergency measures	
General recommendation	Emergency measures are usually necessary, please present this SDS to the doctor who arrives at the scene.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. If there is any discomfort, seek medical attention.
Skin contact	Immediately remove contaminated clothing. Rinse the skin with plenty of soapy water and clean water. If there is any discomfort, seek medical attention.
Ingestion	Do not induce vomiting and do not feed anything from the mouth to an unconscious person. Call a doctor or poison control center immediately.
Inhale	Immediately move the patient to fresh air and maintain unobstructed breathing. If breathing is difficult, give oxygen. If the patient ingests or inhales this substance, mouth to mouth resuscitation should not be performed. If breathing stops, perform



	cardiopulmonary resuscitation immediately. Seek medical attention immediately.
Protection for emergency personnel	Ensure that medical staff understand the hazardous characteristics of the product and take self-protection measures to protect themselves and prevent the spread of contamination.
The most important symptoms and effects, acute and delayed	Limited evidence suggests that repeated or long-term occupational exposure may result in cumulative health effects involving organs or biochemical systems. Targeted treatment should be carried out based on the symptoms that appear.
Instructions for emergency medical treatment and special treatment	Symptoms may appear delayed.

5. Fire-fighting measures

Fire extinguishing medium	
Appropriate fire extinguishing medium	Dry powder, carbon dioxide, water spray or alcohol resistant foam.
Inappropriate fire extinguishing medium	Avoid using too strong water vapor to extinguish the fire, as it may spread and disperse the flames.
Special damage caused by this substance or mixture	During heating, the kiln may explode. Containers exposed to fire may leak their contents through pressure safety valves. Heating or contact with flames may cause expansion or explosive decomposition.
Suggestions for firefighters	When extinguishing a fire, a breathing mask (compliant with MSHA/NIOSH requirements or equivalent) and full body protective clothing should be worn. Extinguish the fire at a safe distance with sufficient protection. Prevent fire water from contaminating surface and groundwater systems.

6. Accidental release measures

Protective measures for operators, protective equipment, and	Ensure adequate ventilation. Remove all ignition sources. Quickly evacuate personnel to a safe area, stay away from the leak area and be in the upwind direction.
--	--



emergency response procedures	Use personal protective equipment. Avoid inhaling vapors, smoke, gases, or dust.
Environmental protection measures	Take measures to prevent further leakage or overflow while ensuring safety. Avoid discharging into the surrounding environment.
Methods for containment and removal of leaked chemicals, as well as the disposal materials used	When there is a small amount of leakage, dry sand or inert adsorbent materials can be used to absorb the leaked material. When there is a large amount of leakage, embankments need to be built to control it. Attachments or collections should be stored in suitable sealed containers and disposed of in accordance with local laws and regulations. Remove all ignition sources and use fire-resistant flower tools and riot control equipment.

7. Handling and storage

Top operational precautions	Operate in a well ventilated area. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Keep away from heat sources, sparks, open flames, and hot surfaces. Take measures to prevent the accumulation of static electricity.
Storage precautions	Keep the container tightly sealed. Store in a dry, cool, and well ventilated place. Keep away from heat sources, sparks, open flames, and hot surfaces. Store away from incompatible materials and food containers.

8. Exposure controls/personal protection

Control parameters	
Occupational exposure limit	No information available
Biological limit value	No information available
Monitoring methods	EN 14042 Guidelines for Workplace Air Use for Negative Exposure to Chemical or Biological Agents GBZ/T 160 Workplace Air Toxic Substance Determination (Series Effective

	Standards) and GBZ/T 300 Workplace Air Toxic Substance Determination (Series Standards).
Engineering Control	Maintain adequate ventilation, especially in enclosed areas. Ensure that there are eye wash and shower facilities near the workplace. Use explosion-proof electrical appliances, ventilation, lighting and other equipment. Set up emergency evacuation routes and necessary risk mitigation areas.
Personal protective equipment	
Eye protection	Wear chemical goggles (compliant with EU EN 166 or US NIOSH standards).
Hand protection	Wear chemical protective gloves (such as butyl rubber gloves). It is recommended to choose protective gloves that have been tested according to EU EN 374, US USF739, or AS/NZS 2161.1 standards.
Respiratory system protection	If the vapor concentration exceeds the occupational exposure limit or symptoms such as irritation occur, please use a full face multi-functional gas mask (US) or AXBEK type (EN 14387) gas mask cartridge.
Skin and body protection	Wear flame-retardant and anti-static protective clothing and anti-static protective boots.

9. Physical and chemical properties

Appearance and characteristics	Colorless transparent liquid
Odor	Not measured
Odor threshold	Not measured
PH value	7
Melting point/freezing point	Not measured
Initial boiling point and boiling range	Not measured
Flash point (O.C)	110°C
Evaporativity	Not measured
Flammable	Not applicable
Explosion upper/lower limit	Not measured
Steam pressure	<0.07KPa(38°C)
Relative vapor density (air=1)	>1

Relative density (water=1)	768.6kg/m ³
Solubility	Insoluble
N-Octanol/Water Partition Coefficient	Not measured
Auto-ignition temperature	Not measured
Decomposition temperature	Not measured
Kinematic viscosity	2.16cSt @40°C
Initial boiling point	230°C

10. Stability and reactivity

Reactiveness	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under correct usage and storage conditions.
The possibility of dangerous reactions	No information available.
Conditions to avoid	Incompatible substances, heat, flames, and sparks.
Incompatible substances	No information available.
Dangerous decomposition products	Under normal storage and use conditions, no hazardous decomposition products will be produced.

11. Toxicological information

Acute toxicity	No information available
Skin corrosion/irritation	No information available
Severe eye injury/irritation	No information available
Skin sensitization	No information available
Respiratory sensitization	No information available
Genital cell mutagenicity	No information available
Reproductive toxicity	No information available
Reproductive toxicity and additional hazards	No information available
Specific target organ systemic toxicity - single exposure	May cause drowsiness or dizziness (Category 3) (hydrocarbons)
Specific target organ systemic toxicity -	No information available

repeated exposure	
Inhalation hazard	Swallowing and entering the respiratory tract may be fatal (Category 1) (hydrocarbons)
Carcinogenicity	IARC not included, NTP not included

12. Ecological information

Acute aquatic toxicity	No information available
Chronic aquatic toxicity	No information available
Durability and degradability	No information available
Bioaccumulation or Bioaccumulation	No information available
The transferability of Tuhoshen	No information available
Evaluation of PBT and vPvB results	Hydrocarbons do not meet the classification criteria for PBT and vPvB in Annex VIII of EU Regulation No 1997/2006.

13. Disposal considerations

Waste chemicals	Before disposal, relevant national and local regulations should be consulted, and it is recommended to use incineration method for disposal.
Pollution packaging materials 废弃注意事项	There may still be residual hazards after the packaging is emptied, and it should be kept away from heat and fire sources. If possible, it should be returned to the supplier for recycling.
Abandonment precautions top	Please refer to the "Waste Management" section.

14. Transport information

Shipping label	Not applicable
UN No.	Not applicable
Correct UN shipping name	Not regulated as dangerous goods transportation
Main categories of transportation hazards	None
Secondary hazard category for transportation	None
Packing group	Not applicable

15. Regulatory Information

International List of Chemicals	
Component	Hydrocarbon
【EINECS】	This substance is listed in regulations
【TSCA】	This substance is listed in regulations
【DSL】	This substance is listed in regulations
【IECSC】	This substance is listed in regulations
【NZIoC】	This substance is listed in regulations
【PICCS】	This substance is listed in regulations
【KECI】	This substance is listed in regulations
【AICS】	This substance is listed in regulations
【ENCS】	No information or not included in regulations

16. Regulatory Information

Reader's note

All reasonable and feasible measures have been taken to ensure that this data sheet and the health, safety, and environmental information contained therein remain accurate as of the following dates. However, no express or implied warranty or assumption is made regarding the accuracy and completeness of the data and information in this data sheet.

The provided data and recommendations are only applicable for the specified use of this product. This product should not be used for any other purpose without consent, except for the specified use.

It is the responsibility of the user to evaluate and safely use this product and comply with all applicable laws and regulations. We will not be responsible for any damage or injury caused by the use of this substance for non specified purposes, failure to follow recommended recommendations, or any inherent hazards of this substance.

If the purchaser of this product intends to provide it for third-party use, it is their responsibility to take all necessary measures to ensure that any person handling or using this product also obtains the information in this data sheet.

1	2024/11/26	Update version (B/0) based on hazard characteristic classification identification report and other SDS information	Jevin Ryu
NO.	Date	Correction items	Reviewer