

Date of Issue: 17.08.2005
Replaced Data Sheet: May 2002
Product Name: Insulating Oil 1730

Page 1 of 4

***1 Identification of the Substance/Preparation and the Company**

Product Name: **Insulating Oil 1730**
Application: Insulation oil; for soaking of crepe-papers.
Producer/Supplier: HÖHNE GmbH
Mühlenstraße 76
D-25421 Pinneberg (Germany)
Telephone: +49 - (0)4101 / 5453 - 0 / Fax: - 33
Internet: www.hoehne.de / E-Mail: info@hoehne.de
Emergency Phone No.: In an emergency dial your local Emergency Call.
Keep this Safety Data Sheet at hand.

***2 Composition / Information on Ingredients**

Chemical Characterization (Preparation):
Composition based on polybutene and highly refined mineral oils.
Additional Information:
No hazardous substance or hazardous preparation according to latest version of 67/548/EEC.
Informations indicated in chapter 8 are to be considered.

3 Hazards Identification

Human Health Hazards:
Prolonged or repeated exposure may give rise to dermatitis.
The product is normally handled at elevated temperature which may cause thermal burns.
In the heated state the product give off fumes. Although these are not thought to produce a significant health hazard, prudence would dictate that exposure to these fumes should be kept to a minimum by observing good work practice and ensuring good ventilation around work areas.
Physical and Chemical Hazards:
The product is typically handled above 100°C and contact with water will result in a violent expansion and a danger of splashing or 'boil over'. Although not classified as flammable, the product is a hydrocarbon material and can burn.
Environmental Hazards:
Avoid uncontrolled disposal into the environment. Not readily biodegradable.

***4 First-Aid Measures**

General:
Remove soiled, soaked clothing and shoes.
Inhalation:
If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Skin Contact:
Cold product: Wash with plenty of cold or lukewarm water and soap.
Hot product: Flood skin with cold water to dissipate heat (at least 10 minutes). All burns should receive medical attention.
Eye Contact:
Cold product: Wash eye thoroughly with copious quantities of water (at least 10 minutes), ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Hot product: Flood with cold water to dissipate heat (at least 15 minutes). In the event of any product remaining, do not try to remove it other than continued irrigation with water. Obtain medical attention immediately.
Swallowing:
Do not induce vomiting unless directed to do so by medical personnel. Do not swallow. Provided the patient is conscious, wash out mouth with water (do not swallow). Medical advice is required.

***5 Fire-Fighting Measures**

Suitable Extinguishing Media:
Extinguishing powder, alcohol-resistant foam, carbon dioxide, water spray or water mist.
Extinguishing Media which must not be used for safety reasons:
Water jet.

Date of Issue: 17.08.2005
Replaced Data Sheet: May 2002
Product Name: Insulating Oil 1730

Page 2 of 4

***5 Fire-Fighting Measures** (continued)

Special Exposure Hazards arising from the substance itself, combustion products, resulting gases: Burning product sets free a complex mixture of gases and airborne particulates, including carbon monoxide and carbon dioxide. Also a rapid depolymerisation of the polybutene can occur in a fire to produce flammable vapours.

Special Protective Equipment for Fire Fighting:

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

Further Information:

Cool closed containers exposed to fire with water.

Do not let enter contaminated extinguishing water into the soil, groundwater or surface waters.

Fire arrears and contaminated fire fighting water must be disposed according to the local official regulations.

***6 Accidental Release Measures**

Personal Precautions:

Wear personal protection clothing (see Chapter 8).

Hot product should be handled so that there is no risk of burns.

In confined spaces, do not allow water or other liquid to contact hot bitumen.

Environmental Precautions:

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.

Clean-up Method:

Adsorb spillages onto sand, earth or any suitable adsorbent material. Fill it into a clearly marked container and dispose of according to local/state/federal regulations (see chapter 13).

***7 Handling and Storage**

Handling:

The usual precautionary measures while handling chemicals are to be considered. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

Open container before heating. Recommended processing temperature: 110 - 130°C.

For quality, technical, and health, safety and environmental reasons, the product should not be overheated during handling and storage. Heating systems which generate localised hot spots should never be used.

Do not breath vapour or mist. Adequate ventilation should be provided if there is risk of aerosol formation.

Precautions Against Fire and Explosion:

Observe the general rules for fire prevention.

A potentially flammable atmosphere may be generated if material is held hot for prolonged periods.

Storage:

Keep container tightly closed and store under cool and dry conditions.

Keep separated from foodstuffs.

Store and use away from heat, sparks, open flame, or any other ignition source.

Avoid direct sunlight, heat sources, and strong oxidising agents.

Maximum storage temperature: 40°C

***8 Exposure Controls / Personal Protection**

For technical protective measures to limit exposure see also Chapter 7 "Handling and Storage".

Occupational Exposure Limits:

In the absence of any national or local regulations the following controls are recommended:

mineral oil mist: long-term exposure limit (TWA) 5 mg/m³
short-term exposure limit (STEL) 10 mg/m³

Personal Protection:

Respiratory Protection: Not required under normal working conditions and with adequate ventilation.

Hand Protection: Wear suitable gloves (nitrile gloves). When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of the heated product.

Eye Protection: Safety glasses with side shields, face shield or full-face protection if potential exists for direct exposure to splashes, or when the material is handled hot.

Skin Protection: Wear apron or overall if potential for exposure to splashes. When handling hot material, wear heat resistant protective gloves, clothing and face shield.

Date of Issue: 17.08.2005
Replaced Data Sheet: May 2002
Product Name: Insulating Oil 1730

***8 Exposure Controls / Personal Protection** (continued)

General safety and hygienic measures:

Do not store food in the work area. Do not eat, drink or smoke during work.

Avoid prolonged or repeated contact with skin. Avoid contact with eyes.

Wash hands with water and soap before breaks and at end of work.

Remove contaminated clothing. Contaminated clothing should be thoroughly cleaned before re-use.

***9 Physical and Chemical Properties**

tested in accordance with

Form:	liquid	
Colour:	light-brown	
Odour:	nearly odourless	
Pour Point:	< -8°C	
Flash Point:	> 200°C	DIN ISO 2592
Ignition Temperature:	not determined	
Vapour Pressure:	< 0,01 hPa	(at 20°C)
Density:	approx. 0,908 g/cm ³	(at 20°C) DIN 51 757
Viscosity:	approx. 11000 mPa·s	(at 23°C) Brookfield
	approx. 110 mPa·s	(at 90°C) Brookfield
Solubility in Water:	insoluble	(at 20°C)
pH value	not applicable	

***10 Stability and Reactivity**

General Information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Conditions to Avoid:

Stable under normal use conditions.

Depolymerises at temperatures above 250°C.

Material to Avoid:

Do not allow hot-liquid product to contact water or other liquids.

Avoid contact with strong oxidising agents.

Hazardous Decomposition Products:

Hazardous decomposition products are not expected to form during normal storage and use.

***11 Toxicological Information**

Basis for Assessment:

Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.

Acute Toxicity:

LD₅₀ oral: Expected to be > 2000 mg/kg.

LD₅₀ dermal: Expected to be > 2000 mg/kg.

Inhalation: Not considered to be an inhalation hazard under normal conditions of use.

Irritating/Corrosive Effects:

Eye Irritation: Expected to be slightly irritating.

Skin Irritation: Expected to be slightly irritating.

Respiratory Irritation: If mists are inhaled, slight irritation of the respiratory tract may occur.

Skin Sensitisation: Not expected to be a skin sensitizer.

Carcinogenicity: Product is based on mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Other components are not known to be associated with carcinogenic effects.

Mutagenicity: Not considered to be a mutagenic hazard.

Reproductive Toxicity: Not considered to be toxic to reproduction.

Further Information:

Prolonged and/or repeated contact with this product can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene. Skin contact should be minimised.

Date of Issue: 17.08.2005
Replaced Data Sheet: May 2002
Product Name: Insulating Oil 1730

*12 Ecological Information

Basis for Assessment:

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Mobility:

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

Persistence / Degradability:

The product is not completely biologically degradable under the conditions of usual test procedures.

Bioaccumulation:

Contains components with the potential to bioaccumulate.

Ecotoxicity:

The product is expected to be practically non-toxic to aquatic organisms; LC/EC₅₀ > 100 mg/l.

Further Information:

Do not allow to escape into waters, wastewater or soil.

The product is practically not water-soluble and free of poisons and heavy metals. The product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities.

*13 Disposal Considerations

Disposal of Residues:

Dispose of according to regulations by incineration in a special waste incinerator.

The relevant EU Directives and local, regional and national regulations must be complied with.

It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.

Uncleaned Packaging (Recommendation):

Containers have to be emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"). Recycle or dispose of in accordance with the legislation in force with a recognised collector or contractor. Labels should not be removed from containers until they have been cleaned.

*14 Transport Information

In cold condition the product is no subject to any transport regulation.

No dangerous cargo according to:

ADR/RID	(Land Transport - Road/Railway)
GGVSee/IMDG-Code	(Transport by Sea)
ICAO-TI/IATA-DGR	(Air Transport)

German Postal Dispatch: Permitted.

Recommendation: Keep away from foodstuffs.

*15 Regulatory Information

No labelling is required in accordance with the EEC directives.

National Regulation (Germany):

Water pollution class (WGK): 1 - slightly hazardous to water

WGK = Classification in accordance with the German Water Resources Act (VwVwS 1999-05-17)

*16 Other Information

This data sheet was prepared in accordance with the EU Directives.

In the Safety Data Sheet all chapters which have been changed since last edition are marked with an asterisk (*) in front of the chapter number.

This Safety Data Sheet replaces all previous information.

Revised and valid from: see date of issue.