

## Safety Data Sheet (SDS) Report

Applicant: Jinan Branch, Sinopec Lubricant co.,LTD.  
No.34 South Industry Road,Gaoxin District,Jinan City,  
ShanDong Province,China.

**SDS number: OCM201802080-001**

Issue Date: 2018-06-20

### Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Heat Transfer Fluid for Electric Heater  
Physical State : Liquid  
Data Received : Jun 13,2018  
Data Reviewed : Jun 20,2018

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### Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated according to requirements of Regulation (EC) No 1907/2006 (REACH) with its amendment Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008, for details please refer to attached pages.

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### Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang  
Regulatory Consultant

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## Safety Data Sheet

## Heat Transfer Fluid for Electric Heater

Jinan Branch, Sinopec Lubricant co.,LTD.

SDS number: OCM201802080-001

Version No:1.0

Issue Date:20/06/2018

According to Regulation (EC) No 1907/2006(REACH) with its amendment Commission Regulation (EU) 2015/830

REACH.DEU.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

## 1.1. Product Identifier

Product name	Heat Transfer Fluid for Electric Heater
Synonyms	Not Available
Other means of identification	Not Available

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Suitable for Electrothermal Oil Heater
Uses advised against	Not Applicable

## 1.3. Details of the supplier of the safety data sheet

Supplier name	Jinan Branch, Sinopec Lubricant co.,LTD.
Address	No.34 South Industry Road, Gaoxin District, Jinan City, ShanDong Province, China.
Telephone	+86-531-88834055
Emergency telephone	+86-531-88834078
Email	rhyjnfgs2002@sina.com
Importer name	EUROMATE GmbH/Emil Lux GmbH & Co. KG
Address	Emil-Lux-Strasse 1 42929 Wermelskirchen GERMANY
Telephone	+49(0)2196/76-4343 / +49(0)2196/76-4000
Email	kenny.li@obisourcing.com

## 1.4. Emergency telephone number

Association / Organisation	EUROMATE GmbH/Emil Lux GmbH & Co. KG
Emergency telephone numbers	+49(0)2196/76-4343 ( 9:00-17:00 Monday-Friday) / +49(0)2196/76-4000 (9:00-17:00 Monday-Friday)
Other emergency telephone numbers	

## SECTION 2 HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP]	H412 - Chronic Aquatic Hazard Category 3
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## 2.2. Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	<b>NOT APPLICABLE</b>

## Hazard statement(s)

H412	Harmful to aquatic life with long lasting effects.
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## Supplementary statement(s)

Not Applicable

## CLP classification (additional)

Not Applicable

## Precautionary statement(s) Prevention

P273	Avoid release to the environment.
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## Heat Transfer Fluid for Electric Heater

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

<b>P501</b>	Dispose of contents/container in accordance with local regulations.
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**2.3. Other hazards**

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****3.1.Substances**

See 'Composition on ingredients' in Section 3.2

**3.2.Mixtures**

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.64742-65-0 2.265-169-7 3.649-474-00-6 4.Not Available	98-99.9	<u>distillates (petroleum), solvent-dewaxed heavy paraffinic</u>	Not Classified
1.122-39-4 2.204-539-4 3.612-026-00-5 4.Not Available	0.1-2	<u>diphenylamine</u>	Acute Toxicity (Oral) Category 3, Acute Toxicity (Inhalation) Category 3, Acute Toxicity (Dermal) Category 3, Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1; H301, H331, H311, H373, H400, H410

**SECTION 4 FIRST AID MEASURES****4.1. Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with the eyes: <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
<b>Skin Contact</b>	If skin or hair contact occurs: <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Seek medical advice.</li> </ul>

**4.2 Most important symptoms and effects, both acute and delayed**

See Section 11

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES****5.1. Extinguishing media**

Sprinkling or spraying, foam fire extinguisher, carbon dioxide fire extinguisher, dry powder fire extinguisher. Sand is only suitable for small fires.

**5.2. Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	▶ Water
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**5.3. Advice for firefighters**

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> </ul>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> </ul> Incomplete combustion produces: carbon monoxide(CO) carbon dioxide (CO2) nitrogen oxides(NOx)

Continued...

## Heat Transfer Fluid for Electric Heater

sulfur oxides (SOx)  
aldehyde  
phosphate  
Some metal oxides and other decomposition components.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Cut off the source of fire and immediately contact the operator to allow the irresponsible personnel to quickly evacuate to safe areas and isolate them. Cut off sources of leakage as much as possible to prevent entry into sewers, drains, water bodies, etc.

See section 8

## 6.2. Environmental precautions

Before the operator arrives at the site, limit spilled substances as much as possible. A small amount of leakage, using sawdust, sand, soil or other absorbents to collect the spilled fluid and place it in a closed, leak-proof container for treatment; for large spills, construct a dike or dig pit collection to ensure that it does not flow into the sewer, Rivers, water sources and lowlands. Spilled material is disposed of in a suitable container. Contamination of soil and plants should be reported to relevant departments.

## 6.3. Methods and material for containment and cleaning up

<b>Minor Spills</b>	Use sawdust, sand, earth, absorbent cotton or other absorbents to prevent diffusion and pack in sealed containers.
<b>Major Spills</b>	Vacuum pump into the container.

## 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

## 7.1. Precautions for safe handling

<b>Safe handling</b>	Operators must be specially trained to strictly observe operating regulations. Avoid contact with oxidants. Equipped with a corresponding number of fire-fighting equipment and leakage emergency treatment equipment. Wear protective shoes when loading and unloading 200 litre drums. Empty containers may be harmful residues.
<b>Fire and explosion protection</b>	See section 5
<b>Other information</b>	Keep the container tightly closed. Do not store it in open or unlabeled containers. Store in a cool, dry, ventilated place away from strong oxidants, ignition sources, heat sources, and flammable materials. Store at room temperature. The empty container may still leave part of the product. Do not cut, weld, or expose it to high temperatures or flames.

## 7.2. Conditions for safe storage, including any incompatibilities

<b>Suitable container</b>	<ul style="list-style-type: none"> <li>▶ Metal barrel</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>
<b>Storage incompatibility</b>	Keep away from strong oxidants, ignition sources, heat sources, and combustibles.

## 7.3. Specific end use(s)

See section 1.2

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Control parameters

## DERIVED NO EFFECT LEVEL (DNEL)

Not Available

## PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Germany Recommended Exposure Limits - MAK Values (English)	distillates (petroleum), solvent-dewaxed heavy paraffinic	White mineral oil (pharmaceutical)	5 mg/m <sup>3</sup>	11(4) ppm	Not Available	Not Available
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	distillates (petroleum), solvent-dewaxed heavy paraffinic	Weißes Mineralöl (Erdöl)	5 mg/m <sup>3</sup>	Not Available	Not Available	(Limit value mg/m <sup>3</sup> (A))
Germany Recommended Exposure Limits - MAK Values (English)	diphenylamine	Diphenylamine	5 mg/m <sup>3</sup>	11(2) ppm	Not Available	Not Available
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	diphenylamine	Diphenylamin	5 mg/m <sup>3</sup>	Not Available	Not Available	(Limit value mg/m <sup>3</sup> (E))

## 8.2. Exposure controls

<b>8.2.1. Appropriate engineering controls</b>	Provide exhaust ventilation or other engineering controls to ensure that the concentration of relevant substances in the air is below the standard
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Continued...

## Heat Transfer Fluid for Electric Heater

8.2.2. Personal protection	
Eye and face protection	<ul style="list-style-type: none"> <li>▶ Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.</li> </ul>
Skin protection	Under normal conditions of use, no special skin and body protection equipment is required in addition to ordinary work clothes. When there is a possibility of splashing, please select suitable and permeability safety clothing and safety shoes according to the actual situation in the workplace. The recommended material is nitrile rubber.
Hands/feet protection	Use oil-resistant, chemical-resistant protective gloves. Nitrile rubber, neoprene, PVC gloves are recommended. Replace contaminated gloves promptly. Wash thoroughly with soap and water after operation. When there is a possibility of splashing, please select suitable and permeability safety clothing and safety shoes according to the actual situation in the workplace. The recommended material is nitrile rubber.
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C.</li> </ul>

## Respiratory protection

There is no need to wear respiratory protective equipment under normal conditions of use. If the engineering control facility does not maintain the concentration of oil mist at a level sufficient to protect the health of the relevant personnel, respiratory protection equipment that meets the relevant regulatory requirements must be selected. For details, consult your respiratory protection equipment supplier.

## 8.2.3. Environmental exposure controls

See section 12

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance	Pale yellow transparent liquid		
Physical state	Liquid	Relative density (Water = 1)	0.8552
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	300
Melting point / freezing point (°C)	-24	Viscosity (cSt)	34 (40°C)
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	231	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## 9.2. Other information

Not Available

## SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	Extreme temperatures, sun exposure, exposure to strong oxidants, ignition sources
10.5. Incompatible materials	Strong oxidants
10.6. Hazardous decomposition products	No dangerous decomposition products will form under normal storage conditions

## SECTION 11 TOXICOLOGICAL INFORMATION

Continued...

## Heat Transfer Fluid for Electric Heater

## 11.1. Information on toxicological effects

<b>Acute Toxicity</b>	Low toxicity is expected.			
	<table border="1"> <tr> <td>Dermal (rabbit) LD50: &gt;5000 mg/kg<sup>[2]</sup></td> </tr> <tr> <td>Inhalation (rat) LC50: &gt;10 mg/4 h<sup>[2]</sup></td> </tr> <tr> <td>Oral (rat) LD50: &gt;5000 mg/kg<sup>[2]</sup></td> </tr> </table>	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Inhalation (rat) LC50: >10 mg/4 h <sup>[2]</sup>	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>
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Inhalation (rat) LC50: >10 mg/4 h <sup>[2]</sup>				
Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>				
distillates (petroleum), solvent-dewaxed heavy paraffinic				
<b>Acute Toxicity</b>	<table border="1"> <tr> <td>Dermal (rabbit) LD50: &gt;2000 mg/kg<sup>[1]</sup></td> </tr> <tr> <td>Inhalation (rat) LC50: &gt;3.9 mg/4 h<sup>[1]</sup></td> </tr> <tr> <td>Oral (rat) LD50: &gt;2000 mg/kg<sup>[1]</sup></td> </tr> </table>	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Inhalation (rat) LC50: >3.9 mg/4 h <sup>[1]</sup>	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>			
	Inhalation (rat) LC50: >3.9 mg/4 h <sup>[1]</sup>			
Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>				
diphenylamine				
<b>Acute Toxicity</b>	<table border="1"> <tr> <td>Oral (hamster) LD50: ~600 mg/kg<sup>[1]</sup></td> </tr> </table>	Oral (hamster) LD50: ~600 mg/kg <sup>[1]</sup>		
	Oral (hamster) LD50: ~600 mg/kg <sup>[1]</sup>			
	<b>Skin Irritation/Corrosion</b>	It is expected to be slightly irritating. Prolonged or constant contact with the skin, and improper cleaning may cause inflammation of the skin.		
<b>Serious Eye Damage/Irritation</b>	It is expected to be slightly irritating.			
<b>Respiratory or Skin sensitisation</b>	Not expected to be a skin allergen			
<b>Mutagenicity</b>	No mutagenic danger			
<b>Carcinogenicity</b>	No cancer danger			
<b>Reproductivity</b>	No prospective hazard			
<b>STOT - Single Exposure</b>	No prospective hazard			
<b>STOT - Repeated Exposure</b>	No prospective hazard			
<b>Aspiration Hazard</b>	Inhalation of steam or oil mist may feel slightly irritating.			
<b>Legend:</b>	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			

## SECTION 12 ECOLOGICAL INFORMATION

## 12.1. Toxicity

<b>Heat Transfer Fluid for Electric Heater</b>	<b>ENDPOINT</b>	<b>TEST DURATION (HR)</b>	<b>SPECIES</b>	<b>VALUE</b>	<b>SOURCE</b>
	Not Available	Not Available	Not Available	Not Available	Not Available
<b>distillates (petroleum), solvent-dewaxed heavy paraffinic</b>	<b>ENDPOINT</b>	<b>TEST DURATION (HR)</b>	<b>SPECIES</b>	<b>VALUE</b>	<b>SOURCE</b>
	EC50	48	Crustacea	>1000mg/L	1
	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
<b>diphenylamine</b>	<b>ENDPOINT</b>	<b>TEST DURATION (HR)</b>	<b>SPECIES</b>	<b>VALUE</b>	<b>SOURCE</b>
	LC50	96	Fish	3.79mg/L	4
	EC50	48	Crustacea	0.31mg/L	4
	EC50	72	Algae or other aquatic plants	0.048mg/L	1
	BCF	768	Fish	0.0437mg/L	4
	NOEC	504	Crustacea	0.16mg/L	1
<b>Legend:</b>	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 12.2. Persistence and degradability

<b>Ingredient</b>	<b>Persistence: Water/Soil</b>	<b>Persistence: Air</b>
diphenylamine	LOW (Half-life = 56 days)	Not Available

## 12.3. Bioaccumulative potential

Continued...

## Heat Transfer Fluid for Electric Heater

Ingredient	Bioaccumulation
diphenylamine	LOW (BCF = 253)

## 12.4. Mobility in soil

Ingredient	Mobility
diphenylamine	LOW (KOC = 1887)

## 12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

## 12.6. Other adverse effects

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

<b>Product / Packaging disposal</b>	<p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.</p> <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Authority for disposal.</li> </ul>
<b>Waste treatment options</b>	Not Available
<b>Sewage disposal options</b>	Not Available

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

<b>Marine Pollutant</b>	NO
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## Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable										
14.2. UN proper shipping name	Not Applicable										
14.3. Transport hazard class(es)	<table border="0"> <tr> <td>Class</td> <td>Not Applicable</td> </tr> <tr> <td>Subrisk</td> <td>Not Applicable</td> </tr> </table>	Class	Not Applicable	Subrisk	Not Applicable						
Class	Not Applicable										
Subrisk	Not Applicable										
14.4. Packing group	Not Applicable										
14.5. Environmental hazard	Not Applicable										
14.6. Special precautions for user	<table border="0"> <tr> <td>Hazard identification (Kemler)</td> <td>Not Applicable</td> </tr> <tr> <td>Classification code</td> <td>Not Applicable</td> </tr> <tr> <td>Hazard Label</td> <td>Not Applicable</td> </tr> <tr> <td>Special provisions</td> <td>Not Applicable</td> </tr> <tr> <td>Limited quantity</td> <td>Not Applicable</td> </tr> </table>	Hazard identification (Kemler)	Not Applicable	Classification code	Not Applicable	Hazard Label	Not Applicable	Special provisions	Not Applicable	Limited quantity	Not Applicable
Hazard identification (Kemler)	Not Applicable										
Classification code	Not Applicable										
Hazard Label	Not Applicable										
Special provisions	Not Applicable										
Limited quantity	Not Applicable										

## Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable												
14.2. UN proper shipping name	Not Applicable												
14.3. Transport hazard class(es)	<table border="0"> <tr> <td>ICAO/IATA Class</td> <td>Not Applicable</td> </tr> <tr> <td>ICAO / IATA Subrisk</td> <td>Not Applicable</td> </tr> <tr> <td>ERG Code</td> <td>Not Applicable</td> </tr> </table>	ICAO/IATA Class	Not Applicable	ICAO / IATA Subrisk	Not Applicable	ERG Code	Not Applicable						
ICAO/IATA Class	Not Applicable												
ICAO / IATA Subrisk	Not Applicable												
ERG Code	Not Applicable												
14.4. Packing group	Not Applicable												
14.5. Environmental hazard	Not Applicable												
14.6. Special precautions for user	<table border="0"> <tr> <td>Special provisions</td> <td>Not Applicable</td> </tr> <tr> <td>Cargo Only Packing Instructions</td> <td>Not Applicable</td> </tr> <tr> <td>Cargo Only Maximum Qty / Pack</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Packing Instructions</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td> <td>Not Applicable</td> </tr> </table>	Special provisions	Not Applicable	Cargo Only Packing Instructions	Not Applicable	Cargo Only Maximum Qty / Pack	Not Applicable	Passenger and Cargo Packing Instructions	Not Applicable	Passenger and Cargo Maximum Qty / Pack	Not Applicable	Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable
Special provisions	Not Applicable												
Cargo Only Packing Instructions	Not Applicable												
Cargo Only Maximum Qty / Pack	Not Applicable												
Passenger and Cargo Packing Instructions	Not Applicable												
Passenger and Cargo Maximum Qty / Pack	Not Applicable												
Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable												

## Heat Transfer Fluid for Electric Heater

Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable
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**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	IMDG Class : Not Applicable IMDG Subrisk : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	EMS Number : Not Applicable Special provisions : Not Applicable Limited Quantities : Not Applicable

**Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable : Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	Classification code : Not Applicable Special provisions : Not Applicable Limited quantity : Not Applicable Equipment required : Not Applicable Fire cones number : Not Applicable

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**SECTION 15 REGULATORY INFORMATION****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture****DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC(64742-65-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI
EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: category 1B (Table 3.1)/category 2 (Table 3.2)	Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens
European Customs Inventory of Chemical Substances ECICS (English)	Germany Recommended Exposure Limits - MAK Values (English)
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)	Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)
European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31	

**DIPHENYLAMINE(122-39-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

European Customs Inventory of Chemical Substances ECICS (English)	Germany Recommended Exposure Limits - MAK Values - Carcinogens
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)	Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens
European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31	Germany Recommended Exposure Limits - MAK Values (English)
European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI	Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

**15.2. Chemical safety assessment**

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

**15.3. Classification of Substances and Mixtures into Water Hazard Classes****PREPARATION IS WGK 3**

Name	WGK	Score	Source
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	3		

Continued...

## Heat Transfer Fluid for Electric Heater

DIPHENYLAMINE

3

**SECTION 16 OTHER INFORMATION****Full text Risk and Hazard codes**

<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.

**Other information**

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

**Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average

PC – STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index