1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name: Therminol® XP

Reference number: 20000100562

CAS number: 8042-47-5

Use of the substance/preparation

Uses: Heat Transfer Fluid

Company/undertaking identification

Supplier:
Solutia Europe SPRL/BVBA
Rue Laid Burniat, 3
B-1348 Louvain-la-Neuve (Sud)
Belgium
Telephone: +32(0)10 48 12 11 - Fax: +32(0)10 48 12 12

Solutia UK Limited
Corporation Road
Newport NP19 4XF
South Wales, UK
Telephone: +44 1633 27 8221 - Fax: +44 1633 27 6317

e-mail address of person responsible for this SDS
SDS.Europe@Solutia.com

Emergency telephone number
+32(0)3.568 5123 (Belgium) (24 / 7)

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification
Not classified.

Physical/chemical hazards: Not applicable

Human health hazards: Not applicable

Environmental hazards: Not applicable

Additional hazards: Not available.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>%</th>
<th>EC number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>100,00</td>
<td>232-455-8</td>
<td></td>
</tr>
</tbody>
</table>

See section 16 for the full text of the R-phrases declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
4. FIRST AID MEASURES

Inhalation
Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.

Ingestion
Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Skin contact
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Eye contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Note to Physician:
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments
Not available.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media
Use an extinguishing agent suitable for the surrounding fire.

Suitable
None known.

Not suitable
In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special exposure hazards
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).

Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up
Small spill
Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor.

Large spill
Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
7. HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Handling</th>
<th>Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Store in accordance with local regulations. Store in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</td>
</tr>
<tr>
<td>Packaging materials</td>
<td><strong>Recommended</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Exposure Scenario information</strong></td>
</tr>
</tbody>
</table>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Exposure limit values</th>
<th>Occupational exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ingredient name</strong></td>
<td>No exposure limit value known.</td>
</tr>
<tr>
<td><strong>Recommended monitoring procedures</strong></td>
<td>If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.</td>
</tr>
</tbody>
</table>

| Exposure controls | Occupational exposure controls | No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. |
| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. |
| Respiratory protection | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Eye protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. |
| Skin protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |

| Exposure Scenario information | Not available. |

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>General information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>oily liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colorless.</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless.</td>
</tr>
</tbody>
</table>
**Important health, safety and environmental information**

**pH**
Not applicable

**Boiling point**
358 °C

**Flash point**
199 °C  
Method: ASTM D-92  
Test: Open cup

**Vapor pressure**
< 0.007 hPa @ 20 °C

**Density**
0.853 g/cm³ @ 25 °C

**Solubility (water)**
negligible

**Octanol/water partition coefficient**
> 6

**Viscosity**
Dynamic: 24 - 27 mPa.s @ 40 °C  
27 - 30 mPa.s @ 38 °C

**Other information**

**Auto-ignition temperature**
346 °C  Method: ASTM E-659

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### 10. STABILITY AND REACTIVITY

**Chemical stability**
The product is stable.

**Conditions to avoid**
Avoid all possible sources of ignition (spark or flame).

**Materials to avoid**
Strong oxidising agents.

**Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Possibility of hazardous reactions**
Under normal conditions of storage and use, hazardous reactions will not occur.

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### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**White mineral oil**
*(petroleum)*

Type: LD50  Oral  
Species: Rat  
Value: > 5.000 mg/kg

Type: LC50  Inhalation  
Species: Rat  
Value: > 5 mg/l

Type: LD50  Dermal  
Species: Rabbit  
Value: > 2.000 mg/kg

**Over-exposure signs/symptoms:**

**Inhalation**
No specific data.

**Ingestion**
No specific data.
Skin
No specific data.
Eyes
No specific data.

12. ECOLOGICAL INFORMATION

Additional information
Solutia has not conducted environmental toxicity or biodegradation studies with this material.

Environmental effects
This product shows a high bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Methods of disposal
The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European waste catalogue (EWC)
13 03 07

Hazardous waste
Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Exposure Scenario information
Not available.

14. TRANSPORT INFORMATION

International transport regulations

ADR/RID Classification
UN number: -
Proper shipping name: Not available.
Classes: Not available.
PG: -
Additional information: Not available.

IATA Classification
UN number: -
Proper shipping name: Not available.
Classes: Not available.
PG: -
Additional information: Not available.

IMDG Classification
UN number: -
Proper shipping name: Not available.
Classes: Not available.
PG: -
Additional information: Not available.

PG*: Packing group

15. REGULATORY INFORMATION

Chemical Safety Assessment
Not available.

EU regulations
Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.
This product is not classified according to EU legislation.

Risk phrases
Contains

Integrated pollution prevention and control list (IPPC) - Air
Integrated pollution prevention and control list (IPPC) - Water
Prior Informed Consent. List of chemicals subject to the international PIC procedure (Part I, II, III)

Other EU regulations
Additional warning phrases Not applicable
Risk phrases This product is not classified according to EU legislation.
Contains Liquid hydrocarbon

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3
Restrictions on use
Uses None identified.

Number format: “,” used as decimal separator.

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Other special considerations
Date of previous issue 00.00.0000
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Annex

Exposure Scenarios
Not available.