SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Elphor® SCAN-solution for Fractoscan and Elphoscan

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Ready-to-use, clear product containing hydrocarbon for use in the automated serum protein electrophoresis.

1.3. Details of the supplier of the safety data sheet
Company name: SARSTEDT AG & Co.
Street: Sarstedtstraße 1
Place: D-51588 Nümbrecht
Post-office box: D-51582 Nümbrecht
Telephone: +49 (0)2293 / 305 - 0
Telefax: +49 (0)2293 / 305 - 2470
Contact person: Dr. Dagmar Flach
Telephone: +49 (0)2293 / 305 - 4500
Jochen Hoffmann
e-mail: sicherheitsdatenblatt@sarstedt.com
Internet: www.sarstedt.com
Responsible Department: R & D Center

1.4. Emergency telephone number:
Poison Center in Bonn (Germany): +49 (0)228 / 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Indications of danger: Xn - Harmful
R phrases:
Harmful: may cause lung damage if swallowed.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Aspiration hazard: Asp. Tox. 1
Hazard Statements:
May be fatal if swallowed and enters airways.

2.2. Label elements
Hazardous components which must be listed on the label
Distillates (petroleum), hydrotreated light, Kerosine - unspecified

Signal word: Danger
Pictograms: GHS08

Hazard statements
H304 May be fatal if swallowed and enters airways.

Precautionary statements
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Elphor® SCAN-solution for Fractoscan and Elphoscan

Art. no. 88.7150.097

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according to Regulation (EC) No 1907/2006

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of paraffinic and naphthenic hydrocarbons.

Hazardous components

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No</td>
<td>Classification according to Directive 67/548/EEC</td>
<td></td>
</tr>
<tr>
<td>Index No</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td></td>
</tr>
<tr>
<td>REACH No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>265-149-8</td>
<td>Distillates (petroleum), hydrotreated light, Kerosine - unspecified</td>
<td>100 %</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>Xn - Harmful</td>
<td>R65</td>
</tr>
<tr>
<td>649-422-00-2</td>
<td>Asp. Tox. 1; H304</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. - (Water, to which activated charcoal may be added) - Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.
5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion
No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed.

Advice on storage compatibility
Keep away from food.

7.3. Specific end use(s)

Ready-to-use, clear product containing hydrocarbon for use in the automated serum protein electrophoresis.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.
Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method

| pH-Value: | not determined |

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>40 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>175 °C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&lt; 85 °C</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Solid:</th>
<th>not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas:</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower explosion limits:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper explosion limits:</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>&lt;225 °C</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Solid:</th>
<th>not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas:</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

| Decomposition temperature: | <350 °C |

Oxidizing properties

Not oxidizing.

<table>
<thead>
<tr>
<th>Vapour pressure:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density:</td>
<td>0,86 g/cm³</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>0,1 g/L</td>
</tr>
</tbody>
</table>

Solubility in other solvents

<table>
<thead>
<tr>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient:</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures. Observe the expiry date.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Heating. Keep away from heat, sparks and flame.

10.5. Incompatible materials
Strong oxidizing agents. Oxidizing substances.

10.6. Hazardous decomposition products
In case of fire: Flue gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-47-8</td>
<td>Distillates (petroleum), hydrotreated light, Kerosine - unspecified</td>
<td>oral</td>
<td>LD50</td>
<td>ca. 2600</td>
<td>Rat</td>
<td>(calculated)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>ca. 2600</td>
<td>Rabbit</td>
<td>(calculated)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h aerosol)</td>
<td>LC50</td>
<td>ca. 6,5 mg/l</td>
<td>Rat</td>
<td>(calculated)</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Based on available data, the classification criteria are not met. Causes eye irritation.

Sensitising effects
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

Aspiration hazard
May be fatal if swallowed and enters airways.
Additional information on tests
This mixture is classified as hazardous according to 1999/45/EC.

Practical experience

Other observations
Longer or repeated skin contact degreases the skin and may cause dermatitis. Causes eye irritation.

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity: The classification criteria for this hazard class are not met by definition.

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
No reference of mobility in soil.

12.5. Results of PBT and vPvB assessment
The product has not been tested.

12.6. Other adverse effects
No information available.

Further information
The substance swims on the water. It partly evaporates from the water and soil surface within a day. However, an essential part remains there for a longer period of time.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1268
14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.
14.3. Transport hazard class(es): III
14.4. Packing group: 3
Hazard label: F1
Classification code: 363
Special Provisions: 363
Limited quantity: 5 L
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Other applicable information (land transport)
Limited quantity: E1
Inland waterways transport (ADN)

14.1. UN number: UN 1268

14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.

14.3. Transport hazard class(es): III

14.4. Packing group: 3

Hazard label: 3

Classification code: F1

Special Provisions: 363

Limited quantity: 5 L

Other applicable information (inland waterways transport)

Limited quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1268

14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.

14.3. Transport hazard class(es): III

14.4. Packing group: 3

Hazard label: 3

Special Provisions: 223, 363, 955

Limited quantity: 5 L

EmS: F-E, S-E

Other applicable information (marine transport)

Limited quantity: E1

Air transport (ICAO)

14.1. UN number: UN 1268

14.2. UN proper shipping name: PETROLEUM DISTILLATES, N.O.S.

14.3. Transport hazard class(es): III

14.4. Packing group: 3

Hazard label: 3

Special Provisions: A3

Limited quantity Passenger: 10 L

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

Other applicable information (air transport)

Passenger-LQ: Y344

Limited quantity: E1
14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information
Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
Basing on the GHS/CLP regulation (EC) No. 1272/2008 the product was subjected to a new evaluation and the Safety Data Sheet revised accordingly. The telephone and fax numbers of the company have been updated.

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant R-phrases (Number and full text)
65 Harmful: may cause lung damage if swallowed.

Relevant H- and EUH-phrases (Number and full text)
H304 May be fatal if swallowed and enters airways.

Further Information
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)