1. IDENTIFICATION

Product identifier

Product name: SPECIFIX - 40 CURING AGENT
Cat. No. 40200053, 40200049
Container size: 500 ml, 1 l

Recommended use and restrictions on use

Application: For embedding and impregnation of materialographic specimens

Details of the supplier of the safety data sheet

Supplier: Struers Ltd
7275 West Credit Avenue
Ontario L5N 5M9 Mississauga
Canada
Tel:+1 (905) 8148855

Responsible for safety data sheet authoring: Responsible for safety data sheet authoring: DHI

Any questions to the contents of this safety data sheet should be sent to: struers@struers.dk

Emergency telephone number

Alberta & NWT:
Poison & Drug Information Service (PADIS): 1-800-332-1414

British Columbia:
Drug and Poison Information Centre (DPIC): 604-682-5050 / 1-800-567-8911

Ontario:
Poison Centre: 1-800-268-9017

Québec:
Poison Control Centre: 1-800-463-5060

Infotrac:
1-800-535-5053

Struers CAN:
+1 (905) 8148855
(Only during office hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015:
Acute (Oral) Toxicity — Category 4
Acute (Dermal) Toxicity — Category 4
Acute (Inhalation) Toxicity — Category 4
Skin Corrosion — Category 1B
Serious Eye Damage — Category 1
Skin Sensitizer — Category 1
Label elements

Danger

H302 + H312 + H332  Harmful if swallowed, in contact with skin or if inhaled.
H314  Causes severe skin burns and eye damage.
H317  May cause an allergic skin reaction.

P101  If medical advice is needed, have product container or label at hand.
P262  Do not get in eyes, on skin, or on clothing.
P280  Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P311  IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P102  Keep out of reach of children.
P103  Read label before use.
P260  Do not breathe gas, fume, vapours or spray.
P362 + P364  Take off contaminated clothing and wash it before reuse.
P264  Wash contaminated skin thoroughly after handling.
P270  Do not eat, drink or smoke when using this product.
P271  Use only outdoors or in a well-ventilated area.
P272  Contaminated work clothing should not be allowed out of the workplace.
P273  Avoid release to the environment.
P280  Wear protective clothing, gloves, eye and face protection.
P301 + P312  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304 + P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330  Rinse mouth.
P333 + P313  If skin irritation or rash occurs: Get medical advice/attention.
P405  Store locked up.
P501  Dispose of contents/container in accordance with local regulations.

Other hazards

Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

PBT/vPvB:

No information available.
4. FIRST-AID MEASURES

Description of first-aid measures

Inhalation: Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions.

Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.

Skin contact: Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and take along these instructions.

Eye contact: Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

Ingestion: Immediately call a Poison Center/doctor. Rinse mouth. Do not induce vomiting. Do not drink anything without first consulting a doctor. Have these instructions at hand. (*)

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.
5. FIRE-FIGHTING MEASURES

Extending media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials. Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the hazardous product

Specific hazards: By heating and fire, very toxic nitrogen oxides may be formed.

Advice for fire-fighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Protective equipment: Avoid contact with skin and eyes. For personal protection, see section 8.

Emergency procedures: No specific recommendations. For personal protection, see section 8.

Environmental precautions

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Absorb spillage with non-combustible, absorbent material.

Reference to other items

References: For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid contact with skin and eyes. Immediately change drenched clothing. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize contact.

Technical precautions: Local exhaust is recommended. Provide easy access to water supply and eye wash facilities.

Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place.

Specific end-use(s)

Specific use(s): No information available.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit assigned.

Exposure controls

Engineering measures: Provide adequate ventilation. Local exhaust is recommended. An eye wash bottle must be available at the work site.

Personal protection: Personal protection equipment should be chosen according to relevant standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. It is recommended to use respiratory equipment with combination filter, type ABEK.

Hand protection: Wear protective gloves. Butyl rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Not available.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Colourless to pale yellow</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>aromatic</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
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</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>116°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
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</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
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</tr>
<tr>
<td><strong>Vapour density</strong></td>
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</tr>
<tr>
<td><strong>Relative density</strong></td>
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</tr>
<tr>
<td><strong>Solubility</strong></td>
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</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
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</tr>
<tr>
<td><strong>Auto-ignition temperature (°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°C)</strong></td>
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</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
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</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Other information**

| Other data                      | Volatile Organic Compound (VOC): 388 g/l (calculated) |

10. STABILITY AND REACTIVITY

Reactivity
Reactivity: No data available.

Chemical stability
Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions
Hazardous Reactions: No data available.

Conditions to avoid
Conditions/materials to avoid: Heating. Direct sunlight.

Incompatible materials
Incompatible materials: Reacts violently with strong oxidizing substances.

Hazardous decomposition products
Hazardous decomposition products: When heated and in case of fire, very toxic nitrogen oxides are formed.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute Toxicity (Oral): Harmful if swallowed.
Acute Toxicity (Dermal): Harmful in contact with skin.
Acute Toxicity (Inhalation): Harmful if inhaled.
Skin Corrosion/Irritation: Causes severe burns.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
National Toxicology Program (NTP): No.
IARC Not Listed.
Reproductive Toxicity: Based on available data, the classification criteria are not met.
STOT - Single exposure: Based on available data, the classification criteria are not met.
STOT - Repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
Inhalation: After 24-36 hours, injured persons may develop serious shortness of breath and lung edema.
12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity: Harmful to aquatic life with long lasting effects.

Persistence and degradability
Degradability: The degradability of the product has not been stated.

Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil
Mobility: No data available.

Results of PBT and vPvB assessment
PBT/vPvB: No information available.

Other adverse effects
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Note that fully cured material is not considered as hazardous waste.

Contaminated packaging: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
14. TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA).

**UN number**
- UN-No: 2289

**UN proper shipping name**
- Proper Shipping Name: ISOPHORONEDIAMINE, SOLUTION

**Additional IMDG information:**
- EmS: F-A, S-B
- MFAG: 1
- Segregation Group: Alkali

**Transport hazard class(es)**
- Class: 8

**Packing group**
- PG: III

**Environmental hazards**
- Marine pollutant: No.
- Environmentally Hazardous substance: No.

**Special precautions for user**
- Special precautions: None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Transport in bulk: Not relevant
15. REGULATORY INFORMATION

**Safety, health and environmental regulations specific to the product**

**Special provisions:**
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

DSL: All chemicals included in the product are DSL listed or exempt.

**National regulation:**
Hazardous Products Regulations, with amendments.
Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.
Department of Justice. Canadian Environmental Protection Act 1999 (CEPA), 1999, c. 33, with amendments.
Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments (2016).
Quebec: Regulation respecting the quality of the work environment, with amendments (2013-12-13).
16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 4.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Additional information: Classification according to WHMIS 2015:
Calculation method.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.