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

Product identifier

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

Relevant identified uses of the substance or mixture and uses advised against

Application: For embedding and impregnation of materialographic specimens
Uses advised against: No specific uses advised against are identified. (*)

Details of the supplier of the safety data sheet

Supplier: Struers ApS
Pederstrupvej 84
DK-2750 Ballerup
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI
Any questions to the contents of this material safety data sheet should be sent to: struers@struers.dk

Emergency telephone number

National Capital Poison Center: 1-800-222-1222
Infotrac:
1-800-535-5053
Struers US:
1-440-871-0071

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA 2012:
Acute Oral Toxicity Category 4
Acute Dermal Toxicity Category 4
Acute Inhalation Toxicity Category 4
Skin Corrosive Category 1B
Serious Eye Damage Category 1
Skin Sensitizer Category 1
**SAFETY DATA SHEET**

**Product name:** SPECIFIX - 40 CURING AGENT

**Revision Date:** 2020-01-28

**Document No.:** M0075

**Page:** 2/11

**Print date:** 2020-01-28

**SDS-ID:** US-EN/21.0

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**Label elements**

(*)

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**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.

P260  Do not breathe dust/fume/gas/mist/vapours/spray.

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/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.

P310  Immediately call a poison center/doctor.

P362 + P364  Take off contaminated clothing and wash it before reuse.

P101  If medical advice is needed, have product container or label at hand.

P102  Keep out of reach of children.

P103  Read label before use.

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.

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.

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**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.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: hardener.

OSHA 2012:

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<tr>
<th>%</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>REACH Reg. No.</th>
<th>Chemical name</th>
<th>Hazard classification</th>
<th>Notes</th>
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<td>30-60</td>
<td>2855-13-2</td>
<td>220-666-8</td>
<td>01-2119514687-32-xxxx</td>
<td>3-Aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>Acute Dermal Toxicity Category 4</td>
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<td>Acute Oral Toxicity Category 4</td>
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<td></td>
<td></td>
<td>Skin Corrosive Category 1B</td>
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<td>Skin Sensitizer Category 1</td>
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<td></td>
<td>Aquatic Chronic Toxicity Category 3</td>
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<tr>
<td>30-60</td>
<td>100-51-6</td>
<td>202-859-9</td>
<td>01-2119492630-38-xxxx</td>
<td>Benzyl alcohol</td>
<td>Acute Oral Toxicity Category 4</td>
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<td>Acute Inhalation Toxicity Category 4</td>
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<td></td>
<td>Eye irritant Category 2A</td>
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</tr>
</tbody>
</table>

SECTION 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 bring 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.
SECTION 5: FIREFIGHTING MEASURES

Extinguishing 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.

Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, very toxic nitrogen oxides may be formed.

Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid contact with skin and eyes. For personal protection, see section 8.

For emergency responders: 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 sections

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

SECTION 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.
SECTION 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 the ANSI 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.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

- **Form:** Liquid.
- **Color:** Colorless to pale yellow.
- **Odor:** Aromatic
- **Odor threshold:** Not available.
- **pH:** Not available.
- **Melting point:** Not available.
- **Boiling point:** Not available.
- **Flash point:** 240.8°F
- **Evaporation rate:** Not available.
- **Flammability (solid, gas):** Not available.
- **Explosion limits:** Not available.
- **Vapor pressure:** Not available.
- **Vapor density:** Not available.
- **Relative density:** 0.97
- **Solubility:** Not available.
- **Partition coefficient (n-octanol/water):** Not available.
- **Auto-ignition temperature (°F):** Not available.
- **Decomposition temperature (°F):** Not available.
- **Viscosity:** Not available.
- **Explosive properties:** Not available.
- **Oxidizing properties:** Not available.

**Other information**

- **Other data:** Volatile Organic Compound (VOC): 388 g/l (calculated)
SECTION 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.

SECTION 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. I.A.R.C. Monographs: No. OSHA: No.
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: May cause an allergic skin reaction.

Inhalation: After 24-36 hours, injured persons may develop serious shortness of breath and lung edema.
SECTION 12: ECOLOGICAL INFORMATION

Toxicity
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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues: Dispose of waste and residues in accordance with local authority requirements.
Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.
SECTION 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.
SECTION 15: REGULATORY INFORMATION

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

Special provisions: State and local regulation may apply.

TSCA: Listed.

NFPA Rating: Health: 3 Fire: 1 Reactivity: 0 Other:

SARA Section 302: No.
SARA Section 304: No.
SARA Section 313: No.
SARA (311/312) Hazard categories: Yes.

National regulation: The following lists have been checked:
Threshold Limit Values (2019), ACGIH, by the American Conference on Governmental Industrial Hygienists.
NIOSH Pocket Guide to Chemical Hazards.
The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.
SECTION 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: 1.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

[Signature]

Allan Vorup

Additional information: Classification according to HCS 2012:
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.