

# SAFETY DATA SHEET



Product name:	SPECIFIX - 40 CURING AGENT	Page:	1/11
Revision Date:	2019-03-29	Print date:	2019-03-29
Document No.:	M0075	SDS-ID:	CA-EN/20.1

## 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

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## 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.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: hardener.

WHMIS 2015:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
30-60	2855-13-2	220-666-8	01-2119514687-32-xxxx	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	Acute (Dermal) Toxicity Category 4 Acute (Oral) Toxicity Category 4 Skin Corrosion Category 1B Skin Sensitizer Category 1 Aquatic Chronic Toxicity Category 3	
30-60	100-51-6	202-859-9	01-2119492630-38-xxxx	Benzyl alcohol	Flammable Liquids Category 4 Acute (Oral) Toxicity Category 4 Acute (Inhalation) Toxicity Category 4 Eye Irritation Category 2	

## 4. FIRST-AID MEASURES

### Description of first-aid measures

<u>Inhalation:</u>	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.
<u>Skin contact:</u>	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.
<u>Eye contact:</u>	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.
<u>Ingestion:</u>	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.

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## 5. FIRE-FIGHTING 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.

### 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.

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## 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<u>Form:</u>	Liquid.
<u>Colour:</u>	Colourless to pale yellow.
<u>Odour:</u>	aromatic
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not available.
<u>Melting point:</u>	Not available.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	116°C
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	Not available.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	0.97
<u>Solubility:</u>	Not available.
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Not available.
<u>Oxidising properties:</u>	Not available.
<b><u>Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 388 g/l (calculated)

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## 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.

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## 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.

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## 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

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## 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.  
British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments (2015).  
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).  
Alberta: Occupational Health and Safety Code 2009.  
U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th Edition.  
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

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## 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.

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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.  
[www.dhigroup.com](http://www.dhigroup.com).

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