

# SAFETY DATA SHEET



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Revision Date:	2019-03-29	Print date:	2019-03-29
Document No.:	M0074	SDS-ID:	AU-EN/21.1

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

### Product identifier

Product name: SPECIFIX - 20 CURING AGENT  
Cat. No. 40200052, 40200048

Container size: 200 ml, 500 ml

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

Application: For embedding and impregnation of materialographic specimens

### Details of the supplier of the safety data sheet

Supplier: Struers Australia  
27 Mayneview Street  
Milton QLD 4064, Australia

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

Australian Poisons Information Centre: 13 11 26.  
  
+61 7 3512 9600  
(Only during office hours)

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## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

WHS:

- Acute toxicity – oral – Category 4
- Acute toxicity - dermal - Category 3
- Acute toxicity - inhalation - Category 4
- Skin corrosion/irritation - Category 1A
- Skin Sensitisation - Category 1
- Serious eye damage/eye irritation - Category 1
- Specific target organ toxicity (single exposure) - Category 3 (respiratory tract irritation)

### Label elements



Danger

Contains:

2-Methyl-1,5-pentamethylen-diamine  
Diethylaminopropylamine

H302 + H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

P260 Do not breathe gas, fume, vapours or spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/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 or doctor/physician.

P363 Wash contaminated clothing before reuse.

### Other hazards

PBT/vPvB: Not Classified as PBT/vPvB by current EU criteria.

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: hardener.

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WHS:

%:	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
90-100	15520-10-2	239-556-6	01-2119976310-41-xxxx	2-Methyl-1,5-pentamethylenediamine	Acute Tox. 4;H302 Acute Tox. 4;H312 Acute Tox. 4;H332 Skin Corr. 1A;H314 Eye Dam. 1;H318 STOT SE 3;H335	
1-10	104-78-9	203-236-4	01-2119965402-39-xxxx	Diethylaminopropylamine	Flam. Liq. 3;H226 Acute Tox. 3;H311 Acute Tox. 4;H302 Skin Corr. 1A;H314 Eye Dam. 1;H318 Skin Sens. 1;H317	

References: The full text for all hazard statements is displayed in section 16.

## 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 oedema (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. Bring 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.

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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No specific precautions.

### 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 fire-fighters: 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

Protective equipment: Avoid inhalation of vapours and aerosols and 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 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 inhalation of vapours and aerosols and contact with skin and eyes. Immediately change contaminated clothes. Observe good chemical hygiene practices.

Technical measures: Work practice should minimise 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. Follow rules for flammable liquids.

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

### Specific end use(s)

Specific use(s): No information available.

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## 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 relevant AS/NZS 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 contact.

Hygiene measures: Wash contaminated clothing before reuse.

Environmental Exposure Controls: Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Form: Liquid.  
Colour: Yellow.  
Odour: characteristic  
Odour threshold: Not available.  
pH: Not available.  
Melting point: Not available.  
Boiling point: Not available.  
Flash point: 74.5°C  
Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Explosion limits: Not available.  
Vapour pressure: Not available.  
Vapour density: Not available.  
Relative density: 0,86  
Solubility: Not available.  
Partition coefficient (n-octanol/water): Not available.  
Auto-ignition temperature (°C): Not available.  
Decomposition temperature (°C): Not available.  
Viscosity: Not available.  
Explosive properties: Not available.  
Oxidising properties: Not available.

### Other information

Other data: Volatile Organic Compound (VOC): 860 g/l (calculated)

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## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

Reactivity: None under normal conditions.

### 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 oxidising 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): Toxic 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 sensitisation: 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.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: May cause respiratory irritation.

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 oedema.

Skin contact: Toxicological information on ingredients.  
Diethylaminopropylamine: LD50 (Dermal, Rabbit): 525 mg/kg

Ingestion: Toxicological information on ingredients.  
Diethylaminopropylamine: LD50 (oral, rat): 830 mg/kg  
2-Methyl-1,5-pentamethylen-diamine: LD50 (oral, rat): 1690 mg/kg

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecotoxicity: The environmental hazard of the product is considered to be limited.

### Persistence and degradability

Degradability: The product is biodegradable.

### Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

### Mobility in soil

Mobility: No data available.

### Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

### 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.  
Note that fully cured material is not considered as hazardous waste.

Hazardous Characteristics: H8

Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.

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## SECTION 14: TRANSPORT INFORMATION

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

### UN number

UN-No: 2735

### UN proper shipping name

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (2-Methyl-1,5-pentamethylen-diamine)

Additional IMDG information:

EmS: F-A, S-B

MFAG: 1

Segregation Group: Alkali

### Transport hazard class(es)

Class: 8

### Packing group

PG: I

### 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: AICS: Listed.

National regulation: Work Health and Safety Regulations 2011, with amendments.  
National model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2018).  
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work, with amendments.  
National Code of Practice for the preparation of material safety data sheets 2nd edition [NOHSC:2011(2003)].  
The Industrial Chemicals (Notification and Assessment) Act 1989, as amended.  
National model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (2011), with amendments.  
Hazardous Waste (Regulation of Exports and Imports) Act 1989, with amendments.

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## 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:

The (\*) indicates the changes made with respect to the previous version.

Approved by DHI.



### Additional information:

Classification according to WHS Regulations 2011:  
Calculation method.

### Wording of H-statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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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).