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

1.1. Product identifier

Product name: EPOSPEED 20
Cat. No. SA401100
Container size: 20 ml

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

Application: Non-soluble UV resin for curing samples to glass slides.

1.3. Details of the supplier of the safety data sheet

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

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: Chemical.info@struers.dk

1.4. Emergency telephone number

Emergency telephone: +45 44 600 800
(Only during office hours)
SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP:
Skin Irrit. 2; H315 - Skin Sens. 1; H317 - Eye Irrit. 2; H319 - Aquatic Chronic 2; H411

2.2. Label elements

Warning
Contains:
(3',4'-Epoxycyclohexane)methyl-3,4-epoxycyclohexyl carboxylate
Reaction product: bisphenol-F-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)
Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)
Diphenyl(4-phenylthiophenyl)sulfonium hexafluoroantimoniate
H315
Causes skin irritation.
H317
May cause an allergic skin reaction.
H319
Causes serious eye irritation.
H411
Toxic to aquatic life with long lasting effects.
P273
Avoid release to the environment.
P280
Wear protective clothing, gloves, eye and face protection.
P302 + P352
IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313
If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313
If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

PBT/vPvB:
Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: epoxy resin.
**SAFETY DATA SHEET**

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**Inhalation:** Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and bring these instructions.

**Eye contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Do not induce vomiting.

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

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

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

**Medical attention/treatments:** Not known.

**References:** The full text for all hazard statements is displayed in section 16.
SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture
Specific hazards: During fire, gases hazardous to health may be formed.

5.3. 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

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: Avoid contact with skin and eyes.

6.2. Environmental precautions
Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Absorb spillage with suitable absorbent material.

6.4. Reference to other sections
References: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Safe handling advice: Avoid contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Observe good chemical hygiene practices.

Technical measures: Work practice should minimise contact. Technical aids: Use disposable equipment (rags, brushes, spatulas, putty knives, etc.), if possible.

Technical precautions: First-aid equipment, including eye wash bottle, must be available at the work site.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures for safe storage: No special precautions.

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

7.3. Specific end use(s)
Specific use(s): Not relevant.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>As</th>
<th>Exposure limits</th>
<th>Type</th>
<th>Notes</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-46-6</td>
<td>2,2'-Oxydiethanol</td>
<td>-</td>
<td>23 ppm</td>
<td>TWA</td>
<td></td>
<td>EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>101 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Mix and prepare in a place with efficient exhaust ventilation. An eye wash bottle must be available at the work site. Provide access to washing facilities including soap, skin cleanser and fatty cream.

Personal protection: Personal protection equipment should be chosen according to the CEN 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. Use respiratory equipment with gas filter, type A2.

Hand protection: Wear protective gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. 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.

Hygiene measures: Remove contaminated clothing and wash the skin thoroughly with soap and water after work. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance: yellowish liquid
- Odour: Aromatic
- Boiling point: > 200 °C
- Flash point: > 100 °C
- Explosion limits: Not available
- Relative density: Not available
- Solubility: insoluble in water
- Viscosity: Kinematic viscosity: 293 mm²/s (23 °C)

9.2. Other information

- Other data: Volatile Organic Compound (VOC): 100 g/l (calculated)
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity: None known.

10.2. Chemical stability
Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions
Hazardous Reactions: None known.

10.4. Conditions to avoid
Conditions/materials to avoid: Strong oxidising substances and strong bases.

10.5. Incompatible materials
Incompatible materials: None known.

10.6. Hazardous decomposition products
Hazardous decomposition products: None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute Toxicity (Oral): Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye irritation.
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.
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: Not relevant at normal room temperatures. When heated, irritating vapours may be formed.
Ingestion: Irritating. May cause nausea, stomach pain and vomiting.
SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity: Toxic to aquatic life with long lasting effects.

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

12.3. Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil
Mobility: No data available.

12.5. Results of PBT and vPvB assessment
PBT/vPvB: Not relevant.

12.6. Other adverse effects
Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of collected dust according to agreement with local authorities. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste.

Waste from residues: EWC-code: 16 05 08
SECTION 14: TRANSPORT INFORMATION

14.1. UN number
UN-No: 3082

14.2. UN proper shipping name
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

Additional IMDG information:
EmS: F-A, S-F
MFAG: 1

14.3. Transport hazard class(es)
Class: 9

14.4. Packing group
PG: III

14.5. Environmental hazards
Marine pollutant: Yes.
Environmentally Hazardous substance: Yes.

14.6. Special precautions for user
Special precautions: None known.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.


15.2. Chemical Safety Assessment
CSA status: Not relevant.
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 Regulation (EC) No. 1272/2008:
Calculation method.

Wording of R-phrases/H-statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.