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

1.1. Product identifier
Product name: PRONTOFIX ACCELERATOR
Cat. No. 40200111
Container size: 70 ml

1.2. 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. (*)

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: struers@struers.dk

1.4. Emergency telephone number
NHS: 111

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

2.1. Classification of the substance or mixture

CLP:

- Acute Tox. 4;H332
- Skin Corr. 1A;H314
- Eye Dam. 1;H318
- Skin Sens. 1;H317
- Rep. 2;H361f
- Aquatic Acute 1;H400
- Aquatic Chronic 1;H410

2.2. Label elements

Danger

Contains:

- 4-tert-Butylphenol
- m-Phenylenebis(methylamine)
- 2-Methyl-1,5-pentamethylene-diamine

H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H410 Very toxic to aquatic life with long lasting effects.

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

Vapours are corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung oedema.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: Amines.
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions.

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 rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

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: Treat symptomatically.
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 firefighters: Use air-supplied respirator, gloves and protective goggles.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: Avoid inhalation of vapours and contact with skin and eyes. For personal protection, see section 8.
For emergency responders: No specific recommendations. For personal protection, see section 8.

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

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Dam and absorb spillages with sand, earth or other non-combustible 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 inhalation of vapours and contact with skin and eyes. Observe good chemical hygiene practices.
Technical measures: Wash hands before breaks and before smoking, eating or drinking.
Technical precautions: Local exhaust is recommended. First-aid equipment, including eye wash bottle, must be available at the work site.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)
Specific use(s): No information available.
SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

8.2. Exposure controls

**Engineering measures:** 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. It is recommended to use respiratory equipment with combination filter, type ABEK.

**Hand protection:** Use disposable gloves protecting against epoxy and amines along with cotton gloves closest to the skin. 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.

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

9.1. Information on basic physical and chemical properties

Form: Liquid.
Colour: Yellowish.
Odour: Amine.
Odour threshold: Not available.

pH: 11

Melting point: Not available.
Boiling point: 180 - 205°C / 356 - 401°F
Flash point: 83°C / 181.4°F
Evaporation rate: Not available.

Flammability (solid, gas): Not applicable.
Explosive limits: Not available.
Vapour pressure: 0 hPa (20°C)
Vapour density: Not available.
Relative density: Not available.
Solubility: Partially soluble in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.

Viscosity: Dynamic viscosity: 300 mPa*s
Explosive properties: Not considered to be explosive.
Oxidising properties: Not available.

9.2. Other information

Other data: No information available.
### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity
Reactivity: Reacts violently with strong oxidising substances.

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

#### 10.3. Possibility of hazardous reactions
Hazardous Reactions: None under normal conditions.

#### 10.4. Conditions to avoid
Conditions/materials to avoid: Moisture, heating and strong oxidising substances.

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products
Hazardous decomposition products: When heated, toxic and corrosive vapours/gases may be formed.
SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

**Acute Toxicity (Oral):** Based on available data the classification criteria are not met.
- m-Phenylenebis(methylamine): 
  - LD\(_{50}\) (Oral, Rat): 940 mg/kg
- 2-Methyl-1,5-pentamethylen-diamine:
  - LD\(_{50}\) (Oral, Rat): 1690 mg/kg

**Acute Toxicity (Dermal):** Based on available data, the classification criteria are not met.
- m-Phenylenebis(methylamine):
  - LD\(_{50}\) (Dermal, Rabbit): 2000 mg/kg
- 2-Methyl-1,5-pentamethylen-diamine:
  - LD\(_{50}\) (Dermal, Rabbit): 1900 mg/kg

**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.

**Reproductive Toxicity:** Suspected of damaging fertility.

**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:** Vapours are corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung oedema.

**Ingestion:** Strongly corrosive. Even small amounts may be fatal. Symptoms are severe burning pains in mouth, throat and stomach.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

**Ecotoxicity:** Very 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:** This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

**Other adverse effects:** No information available.
SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues: Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste.

EWC-code: 16 05 08

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

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN-No: 2735

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Class: 8

14.4. Packing group

PG: I

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.


The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.


15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.
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, 8.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Abbreviations and acronyms used in the safety data sheet:
PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

Additional information:
Classification according to Regulation (EC) No. 1272/2008:
Calculation method.

Wording of H-statements:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very 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.