
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Davidsons Fixative
Product code: HST401
Brand: Solmedia Ltd

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

Identified uses: PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.
Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
Telephone: 0844 80 80 900
Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone: +44 (0)844 80 80 900

SECTION 2: Hazard's identification

2.1 Classification of the substance or mixture

Acute Tox. 4: H302+312+332; Carc. 2: H351; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335

Most important adverse effects:

Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.

2.2 Label elements

Hazard statements: H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements:

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

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

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients:

| EINECS | CAS | CLP Classification | Percent |
|---------------------|---------|--|---------|
| ETHANOL | | | |
| 200-578-6 | 64-17-5 | Flam. Liq. 2: H225 | 32.835% |
| FORMALDEHYDE | | | |
| 200-001-8 | 50-00-0 | Carc. 2: H351; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317 | 22.00% |
| ACETIC ACID | | | |
| 200-580-7 | 64-19-7 | Flam. Liq. 3: H226; Skin Corr. 1A: H314 | 11.00% |

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|----------------------|--|
| Skin contact: | Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. |
| Eye contact: | Bathe the eye with running water for 15 minutes. Consult a doctor. |
| Ingestion: | Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor. |
| Inhalation: | Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Skin contact: | There may be irritation and redness at the site of contact. |
| Eye contact: | There may be irritation and redness. The eyes may water profusely. |
| Ingestion: | There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting. |
| Inhalation: | There may be irritation of the throat with a feeling of tightness in the chest. |
| Delayed / immediate effects: | Immediate effects can be expected after short-term exposure. |

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

In combustion emits toxic fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

Workplace exposure limits:

Respirable dust

| State | 8-hour TWA | 15 min. STEL | 8-hour TWA | 15 min. STEL |
|----------------|------------------------|--------------|------------|--------------|
| ETHANOL | | | | |
| UK | 1920 mg/m ³ | - | - | - |
| | | | | |

| FORMALDEHYDE...100% | | | | |
|---------------------|-----------------------|-----------------------|---|---|
| UK | 2.5 mg/m ³ | 2.5 mg/m ³ | - | - |

DNEL / PNEC No data available.

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------------|--------------------|
| State: | Liquid |
| Colour: | Pink |
| Odour: | No data available. |
| Evaporation rate: | No data available. |
| Oxidising: | No data available. |
| Solubility in water: | No data available. |
| Viscosity: | No data available. |

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

| | | | | |
|----------------------------|-----|------|------|-------|
| ETHANAL | | | | |
| IVN | RAT | LD50 | 1440 | mg/kg |
| ORL | MUS | LD50 | 3450 | mg/kg |
| ORL | RAT | LD50 | 7060 | mg/kg |
| FORMALDEHYDE...100% | | | | |
| ORL | MUS | LD50 | 42 | mg/kg |
| ORL | RAT | LD50 | 100 | mg/kg |
| SCU | RAT | LD50 | 420 | mg/kg |
| ACETIC ACID...100% | | | | |
| IVN | MUS | LD50 | 525 | mg/kg |
| ORL | RAT | LD50 | 3310 | mg/kg |

Relevant effects for mixture:

| Effect | Route | Basis |
|--------------------------|-------------|-----------------------|
| Acute toxicity (harmful) | INH DRM ING | Hazardous: calculated |
| Irritation | INH | Hazardous: calculated |
| Corrosivity | OPT INH DRM | Hazardous: calculated |
| Sensitisation | DRM | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number

UN1993

14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S.

(Ethanol/Formaldehyde Mixture)

14.3 Transport hazard class(es)

3

14.4 Packaging group

III

14.5 Environmental hazards

No

Marine pollutant: No**14.6 Special precautions for user****Special precautions:** No special precautions.**Tunnel code:** D/E**Transport category:** 3

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and 3:

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H301: Toxic if swallowed.

H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.