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## MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name: KARNOVSKY'S FIXATIVE

HST408

Brand: Solmedia Ltd

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

For professional use only.

#### 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](mailto:labsupplies@solmedialtd.com)

#### 1.4 Emergency telephone number

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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification under CHIP:**

**Classification under CLP:** Acute oral toxicity, (Category 4)  
Acute inhalation toxicity, (Category 4)  
Eye Damage (Category 1)  
Skin Irritation (Category 2)  
Carcinogenic (Category 2)  
Specific target organ toxicity — single exposure- Category 3  
Skin sensitisation (Category 1)  
Respiratory sensitisation (Category 1)

#### 2.2 Label elements

**Label elements under CLP:**

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**Hazard statements:** H351 Suspected of causing cancer.  
H332 Harmful if inhaled.  
H302 Harmful if swallowed  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation  
H317 May cause allergic skin reaction.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion  
GHS07: Exclamation Mark  
GHS08: Health hazard



**Precautionary statements:**

P280: Wear protective gloves/protective clothing/eye protection/face protection  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
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+P313 IF exposed or concerned: Get medical advice/attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**2.3 Other hazards**

**Other hazards:** I Recommend restriction to professional users only.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Synonyms None

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Name	EC-no	CAS-no	CLP Classification	Percent
Sodium Cacodylate Trihydrate	204-708-2	6131-99-32	Carc 2; H351 Acute Tox 3; H301 H331 Aquatic Acute 1;H400 Aquatic Chronic 1; H410	~2%
Paraformaldehyde	-	30525-89-4	Acute tox 4; H302 H332 STOT SE3; H335 Eye Dam 1; H318 Skin irrit 2; H315 Flam Sol 2;H228 Carc 2:H351	~2%
Glutaral	203.-856-5	11-30-80	Acute Tox 3 (oral); H301 Acute Tox 3; H331, Skin Corr 1B; H314 Aquatic Acute 1; H400 Skin sens 1; H317 Resp sens 1;H334	~2%
Methanol	200-659-6	67-56-1	Flam.Liq 2; H225; Acute Tox.(3);H331,H301,H311, STOT SE2;H371	<0.1%

Refer to section 16 for additional classification information

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Skin contact** Note: Dyes and Stains by their physical nature may result in permanent staining in contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

**Ingestion:** IF SWALLOWED: Do NOT induce vomiting. Rinse out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical advice/attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention..

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

Not data available

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Use alcohol-resistant foam or fine water spray, dry chemical powder or carbon dioxide

### **5.2 Special hazards arising from the substance or mixture**

No data available

### **5.3 Advice for firefighters**

Wear protective clothing to prevent contact with skin and eyes.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Observe all warning labels on container. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Wash hands thoroughly after handling.

### **6.2 Environmental precautions**

Do not let undiluted product or large quantities enter drains or water course. Prevent further leakage or spillage where safe to do so. Inform responsible authorities as appropriate

### **6.3 Methods and materials for containment and cleaning up**

Absorb spillage with appropriate absorbent material e.g. vermiculite or sand; and dispose into suitably labelled closed containers for disposal according to local regulations. Wash spillage site with water and appropriate detergent.

### **6.4 Reference to other sections**

Refer to section 13 of SDS

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Take precaution to avoid exposure. Avoid contact with eyes and skin. Avoid spillage. Wear appropriate personal protective equipment provided. Avoid prolonged or repeated exposure. Wash hands thoroughly after handling.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated place. Replace container lid after use and keep container tightly closed to prevent leakage.

### **7.3 Specific end use(s)**

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components with workplace control parameters

TWA Time Weighted Average Concentration (Long Term Exposure Limit)

STEL Short Term Exposure Limit

LTEL Long Term Exposure Limit

#### Workplace Exposure Levels: WEL EH40/2005:

Glutaral		CAS-No. 11-30-80	EC-No.203-856-5
TWA	LTEL UK	0.05ppm	0.2mg/m <sup>3</sup>
TWA	STEL UK	0.05ppm	0.2mg/m <sup>3</sup>
Methanol		CAS-No.67-56-1	EC-No.200-659-6
TWA	LTEL UK	200ppm	266 mg/m <sup>3</sup>
TWA	STEL UK	250ppm	333 mg/m <sup>3</sup>

### 8.2 Exposure controls

**Engineering measures** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Respiratory protection:** Inhalation of oil mist or vapours may cause respiratory irritation. It is recommended that full-face respirator or air hood be used where local exhaust ventilation is inadequate; use respirator and components tested and approved to appropriate government standards such as NIOSH (US) or EN 143 / EN 14387 (EU).

**Hand protection:** Handle with chemical-resistant, impervious gloves complying with appropriate government standards: EU Directive 89/686/EEC; standard EN 374. Inspect gloves prior to use to ensure adequate protection. Use proper glove removal technique to avoid skin contact with substance/mixture. Dispose of contaminated gloves after use in accordance with local and national applicable laws and good laboratory practises. Wash and dry hands thoroughly after handling. Promptly remove any contaminated clothing and clean appropriately before reuse.

**Eye protection:** Avoid exposure to sprays/mist/aerosols. Use safety goggles for eye protection complying with appropriate government standards such as EN166 (EU).

**Skin protection:** Use chemically resistant protective clothing with closed cuffs and closed neck, appropriate to the concentration /amount of the dangerous substance at the specific workplace.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

a) Appearance Form:	Clear Liquid
b) Odour:	No obvious odour
c) Odour Threshold:	No data available
d) pH	No data available
e) Melting point:	No data available
f) Boiling point:	No data available
g) Flashpoint:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper/lower flammability limits:	No data available
k) Vapour pressure:	No data available
l) Vapour density:	No data available
m) Relative density:	No data available
n) Water solubility:	Soluble
o) Partition coefficient (log Kow):	No data available
p) Autoignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

### **9.2 Other safety information**

No data available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under specified conditions of use and storage

### **10.3 Possibility of hazardous reactions**

No data available.

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

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No data available

## 10.6 Hazardous decomposition products

No data available.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Toxicokinetics

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|---------------------------------------|--|
| (a) Acute toxicity                    | No data available  |
| (b) Skin Corrosion/irritation         | No data available  |
| (c) Serious eye damage/irritation     | No data available  |
| (d) Respiratory or skin sensitisation | May cause skin sensitisation                                 |
| (e) Germ cell mutagenicity            | No data available  |
| (f) Carcinogenicity                   | Suspected human carcinogen                                   |
| (g) Reproductive toxicity             | No data available  |
| (h) STOT- single exposure             | Specific target organ toxicity — single exposure- Category 3 |
| (i) STOT – repeated exposure          | No data available  |
| (j) Aspiration Hazard                 | No data available  |

#### Symptoms / routes of exposure

**Skin contact:** May cause irritation/sensitisation on contact with skin.

**Eye contact:** May cause irritation

**Ingestion:** Maybe harmful if ingested. Contains components which may cause vomiting or other adverse effects such as diarrhoea.

**Inhalation:** Maybe harmful if inhaled. Contains components which may cause irritation to mucous membranes and upper respiratory tract.

**Signs and Symptoms of Exposure** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

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No data available. Do not let undiluted product or large quantities enter drains or water course. Inform responsible authorities as appropriate

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Disposal operations:** Dispose of as hazardous waste via a licensed waste material processor. Comply with local regulations. Dispose of as hazardous waste and offer and non-recyclable solutions to a licensed waste material processor. Comply with local regulations..

**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.

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### SECTION 14: Transport information

Not regulated as dangerous goods under ADR/RID, IMDG, or IATA

#### 14.1 UN number

Not available

#### 14.2 UN proper shipping name

Not available

#### 14.3 Transport hazard class(es)

Not available

#### 14.4 Packaging group

Not available

#### 14.5 Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

#### 14.6 Special precautions for user



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No data available

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## 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 this product.

## SECTION 16: Other information

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

\* indicates text in the SDS which has changed since the last revision.

### Phrases used in s.2 and 3:

H225: Highly flammable liquid and vapour.

H228 Flammable solid.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317 May cause allergic skin reaction.

H318 Causes serious eye damage.

H331: Toxic if inhaled.

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H351 Suspected of causing cancer

H371: May cause damage to organs

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

## KARNOVSKY'S FIXATIVE -HST408

### 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.