

According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product code : GE0815  
 Product name : Hartman's Fixative  
 CAS number :  
 Physical form : liquid, substance  
 REACH : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

PC21: Laboratory chemicals.

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

Company name	: Glentham Life Sciences Ltd	Telephone	: +44 (0) 1225 667 798
	Unit 5 Leafield Way	Fax	: +44 (0) 2033 978 909
	Corsham SN13 9SW	Email	: info@glentham.com
	United Kingdom	Web	: www.glentham.com

### 1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H226	Flam. Liq. 3
H301	Acute Tox. 3
H312	Acute Tox. 4
H314	Skin Corr. 1B
H317	Skin Sens. 1
H318	Eye Dam. 1
H332	Acute Tox. 4
H335	STOT SE 3
H336	STOT SE 3
H341	Muta. 2
H350	Carc. 1B

### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



GHS02 GHS05 GHS06 GHS08

#### Signal words

Danger

#### Hazard statements

H226	Flammable liquid and vapour
H301	Toxic if swallowed
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
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects

H350 May cause cancer

### Precautionary statements

P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
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 or doctor/physician.  
P330 Rinse mouth.  
P264 Do not breathe fume.  
P261 Avoid breathing vapors.  
P241 Use explosion-proof electrical equipment.

### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

## 3.0 Composition/information on ingredients

### 3.1 Substances

Name	Identifier	%	Classification
Hartman's Fixative	CAS: EC: REACH: Not applicable		H226, Flam. Liq. 3 H301, Acute Tox. 3 H312, Acute Tox. 4 H314, Skin Corr. 1B H317, Skin Sens. 1 H318, Eye Dam. 1 H332, Acute Tox. 4 H335, STOT SE 3 H336, STOT SE 3 H341, Muta. 2 H350, Carc. 1B

## 4. First aid measures

### 4.1 Description of first aid measures

Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor.

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

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be severe pain.

Ingestion	Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.

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

##### Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

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

##### Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture. Toxic.

#### 5.3 Advice for fire-fighters

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

### 6. Accidental release measures

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

##### Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Eliminate all sources of ignition. Evacuate the area immediately. 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. Notify the police and fire brigade immediately. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

#### 6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding. Do not discharge into drains or rivers.

#### 6.3 Methods and material for containment and cleaning up

##### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

#### 6.4 Reference to other sections

Refer to section 8 of SDS.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

##### Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Ensure there is exhaust ventilation of the area. Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area.

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

##### Storage conditions

Avoid contact with water or humidity. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Store in cool, well ventilated area.

### 7.3 Specific end use(s)

No data available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits

### 8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Impermeable gloves. Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields. Safety glasses.
Skin protection	Protective clothing.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
Flammability	Flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.

### 9.2 Other information

No data available.

## 10. Stability and reactivity

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Stable at room temperature. Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4 Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

### 10.5 Incompatible materials

**Materials to avoid**

Carbon dioxide. Strong acids. Strong oxidising agents.

## 11. Toxicological information

### 11.1 Information on toxicological effects

a)

**Acute toxicity**

**Chromium (VI) compounds (as Cr)**

No data available.

**Fluorides, inorganic**

No data available.

**Acrylic acid**

No data available.

**Isocyanates, all (as –NCO) Except methyl isocyanate**

No data available.

**Aluminium alkyl compounds**

No data available.

**Aluminium salts, soluble**

No data available.

**Manganese and its inorganic compounds (as Mn)**

No data available.

**MMMF (Machine-made mineral fibre) (except for refractory ceramic fibres and special purpose fibres)**

No data available.

**Molybdenum compounds (as Mo) soluble compounds, insoluble compounds**

No data available.

**Nickel and its inorganic compounds (except nickel tetracarbonyl): water-soluble nickel compounds (as Ni), nickel and water-insoluble nickel compounds (as Ni)**

No data available.

**Antimony and compounds except stibine (as Sb)**

No data available.

**Arsenic and arsenic compounds except arsine (as As)**

No data available.

**Platinum compounds, soluble (except certain halogeno-Pt compounds) (as Pt)**

No data available.

**Pentyl acetates (all isomers)**

No data available.

**Barium compounds, soluble (as Ba)**

No data available.

**Pulverised fuel ash inhalable dust respirable dust**

No data available.

**Cobalt and Cobalt compounds (as Co)**

No data available.

**Beryllium and beryllium compounds (as Be)**

No data available.

**Refractory ceramic fibres and special purpose fibres, total inhalable dust, respirable fraction**

No data available.

**Rhodium (as Rh) metal fume and dust soluble salts**

No data available.

**Silica, amorphous inhalable dust respirable dust**

No data available.

**Silver (soluble compounds as Ag)**

No data available.

**Barium (soluble compounds as Ba)**

No data available.

**Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)**

No data available.

**Mercury and divalent inorganic mercury compounds including mercuric oxide and mercuric chloride (measured as mercury)**

No data available.

**Cadmium and cadmium compounds except cadmium oxide fume, cadmium sulphide and cadmium sulphide pigments (as Cd)**

No data available.

**Cadmium sulphide and cadmium sulphide pigments (respirable dust (as Cd))**

No data available.

**Selenium and compounds, except hydrogen selenide (as Se)**

No data available.

**Silica, respirable crystalline (respirable fraction)**

No data available.

**Indium and compounds (as In)**

No data available.

**Tellurium and compounds, except hydrogen telluride (as Te)**

No data available.

**Manganese and inorganic manganese compounds**

No data available.

**Chromium (II) compounds (as Cr)**

No data available.

**Chromium (III) compounds (as Cr)**

No data available.

**Iron salts (as Fe)**

No data available.

**Copper and compounds: dust and mists (as Cu)**

No data available.

**Cotton dust**

No data available.

**Cyanides, except HCN, cyanogen and cyanogen chloride (as Cn)**

No data available.

**Thallium, soluble compounds (as Tl)**

No data available.

**Tin compounds, inorganic except SnH<sub>4</sub>, (as Sn)**

No data available.

**Tin compounds, organic, except Cyhexatin (ISO), (as Sn)**

No data available.

**Mercury and divalent inorganic compounds including mercuric oxide and mercuric chloride (measured as mercury)**

No data available.

**Zirconium compounds (as Zr)**

No data available.

**b) Skin corrosion/irritation**

Skin corrosion/irritation (Category 1B)

**c) Serious eye damage/irritation**

Serious eye damage/eye irritation (Category 1)

**d) Respiratory or skin sensitisation**

Sensitization, Skin (Category 1)

**e) Germ cell mutagenicity**

Germ cell mutagenicity (Category 2)

**f) Carcinogenicity**

Carcinogenicity (Category 1B)

**g) Reproductive toxicity**

No data available.

**h) STOT-single exposure**

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) **STOT-repeated exposure**

No data available.

j) **Aspiration hazard**

No data available.

11.2 **Symptoms / routes of exposure**

<b>Skin contact</b>	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
<b>Eye contact</b>	The eyes may water profusely. There may be irritation and redness. There may be severe pain.
<b>Ingestion</b>	Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
<b>Inhalation</b>	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
<b>Delayed / immediate effects</b>	Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.
<b>Other information</b>	No data available.

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 substance is not identified as a PBT substance.

12.6 **Endocrine disrupting properties**

This substance is not identified as having endocrine disrupting properties

12.7 **Other adverse effects**

No data available.

13. **Disposal considerations**

13.1 **Waste treatment methods**

**Disposal operations**

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

**NB**

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

14. **Transport information**

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN2920	UN2920	UN2920	UN2920	UN2920

### 14.2. UN proper shipping name

CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	Corrosive liquid, flammable, n.o.s.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
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### Transport document description

UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (HARTMAN'S FIXATIVE), 8 (3), II	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (HARTMAN'S FIXATIVE), 8 (3), II	UN2920 Corrosive liquid, flammable, n.o.s. (Hartman's Fixative), 8 (3), II	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (HARTMAN'S FIXATIVE), 8 (3), II	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (HARTMAN'S FIXATIVE), 8 (3), II
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### 14.3. Transport hazard class(es)

8 (3)	8 (3)	8 (3)	8 (3)	8 (3)

### 14.4. Packing group

II	II	II	II	II
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### 14.5. Environmental hazards

No	No	No	No	No
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## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

#### Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:

vPvB (Article 57e)  
vPvB (Article 57e)  
Toxic for reproduction (Article 57c)  
Endocrine disrupting properties (Article 57(f) - environment)  
Endocrine disrupting properties (Article 57(f) - environment)  
Endocrine disrupting properties (Article 57(f) - environment)  
Endocrine disrupting properties (Article 57(f) - environment)  
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Endocrine disrupting properties (Article 57(f) - environment)

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances: No data available.

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: No data available.

Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021: No data available.

### 15.2 Chemical safety assessment

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

## 16. Other information

### H-Statement Full Texts



H226	Flammable liquid and vapour
H301	Toxic if swallowed
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
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer

### Abbreviations Full Texts

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number
EC50	Effective Concentration 50%
EILINCS	European List of Notified Chemical Substances
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
IATA	International Air Transport Association
IM	Intramuscular
IMDG	The International Maritime Dangerous Goods Code
IP	Intraperitoneal
IV	Intravascular
LD50	Lethal Dose 50%
LOEC	Lowest Observable Effective Concentration
LTEL	Long Term Exposure Limit
NOEC	No Observable Effective Concentration
OECD	Organisation for Economic Cooperations and Development
PBT	Persistent Bioaccumulative Toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

**This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.**

Disclaimer: Glenthams Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.