
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Haematoxylin Harris (with acetic acid)
Product code: HST007
Brand: Solmedia

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: Hazards identification**2.1 Classification of the substance or mixture**

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

Hazard Class	Hazard Category	Hazard Statement
Specific target organ toxicity — repeated exposure	Category 2	H373
Skin irritation	Category 2	H315
Eye irritation	Category 2	H319
Acute oral toxicity	Category 4	H302

2.2 Label elements**Hazard statements:**

Hazard Statement	
H373	May cause damage to kidneys through repeated exposure by the oral route
H315	Causes skin irritation
H319	Causes serious eye irritation

H302	Harmful if swallowed
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Signal words: Warning

Hazard pictograms:



Precautionary statements:

Precautionary Statements	
P314	Get medical advice/attention if you feel unwell
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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

2.3 Other hazards

Other hazards: Dyes and Stains by their physical nature may result in permanent staining if in contact with skin and clothing.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

		Classification (Regulation (EC) No 1272/2008 [CLP])		
Hazardous Components		Amount [%]	Hazard class/ Hazard category	Hazard Statements
Name:	Ethanol	~30%	FLAM. LIQ. CAT. 2.	H355
CAS NO.	64-17-5			
EC-NO.	200-578-6			
Name:	Glacial acetic acid	3-5%	FLAM. LIQ. CAT. 3. SKIN CORR. CAT. 1A.	H226 H314
CAS NO.	64-19-7			
EC-NO.	200-580-7			
Name:	Ethylene Glycol	24-26%	ACUTE TOX CAT. 4. STOT RE CAT. 2.	H302 H373
CAS NO.	107-21-1			
EC-NO.	203-473-3			
Name:	Methanol	<1.0%	FLAM. LIQ. CAT. 2.	H225

CAS NO.	67-56-1		ACUTE TOX. CAT. 3.	H301,
EC-NO.	200-659-6		STOT. SE. CAT. 1.	H311 H370
Name:	Potassium iodate	<0.05%	OX. SOLIDS CAT. 2.	H272
CAS NO.	77-05-6		SKIN IRRIT. CAT. 2.	H315,
EC-NO.	231-831-9		EYE IRRIT. CAT. 2.	H319.
			STOT SE CAT. 3.	H335

SECTION 4: First aid measures

4.1 Description of first aid measures

If exposed keep patient calm and seek immediate medical attention.
Show this safety data sheet to doctor/physician in attendance.

After 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.

In case of 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.

After 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.

In case of ingestion

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.

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

No data available.

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

May emit toxic fumes under fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus /protective clothing. Avoid contact with skin and eyes.

5.4 Further information

No data available.

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 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

For disposal refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Take precaution to avoid exposure. Avoid contact with eyes and skin. Wear appropriate personal protective equipment provided. 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)

Recommend restriction to professional users only.

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

Component	CAS-no	Value	Control Parameters	Basis
Ethylene Glycol	107-21-1	TWA	20 ppm 52mg/m ³ 40 ppm 104mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Methanol	67-56-1	TWA STEL UK – 15min TWA LTEL UK – 8h	250 ppm 333 mg/m ³ 200ppm 266 mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Glacial Acetic Acid	64-19-7	TWA	10ppm- 25mg/m ³ 15ppm- 37mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Ethanol	64-17-5	TWA LTEL – 8h	1000 ppm-1920mg/m ³	UK.EH40 WEL- Workplace Exposure limit

8.2 Exposure controls

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

Eye/face protection

Avoid exposure to sprays/mist/aerosols. Use face shield and/or safety goggles for eye protection complying with appropriate government standards such as EN166 (EU).

Skin protection

Handle with chemical-resistant, impervious gloves or 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.

Body 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.

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 EN143 / EN 14387 (EU).

Additional information

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour:	Reddish/Purple
Odour:	Slight smell of acetic acid (vinegar)
Odour threshold:	No data available
pH:	Approx. 2.7
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Flammability or explosive limits	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other safety information

Particle Size: No data available

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

Strong Oxidising agents

10.6 Hazardous decomposition products

Products of Carbon Oxides and Nitrogen Oxides may be products on burning or heating. The nature of released decomposition products has not been determined.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The toxicological properties of this product have not been fully investigated. Judgements have been made based upon consideration of its major component(s).

(a) Acute toxicity

Ethylene glycol CAS-No 107-21-1

LDLo Oral - human - 500mg/kg; ATE point = 500

Methanol CAS-No 67-56-1

LDLo Oral - human - 300mg/kg; ATE point = 100

LCLo Inhalation - monkey - 1000ppm 4h; ATE point = 700

LDLo Dermal - monkey – 393mg/kg; ATE point = 300

(b) Skin corrosion/irritation

CAS 64-19-7 10-25% - rabbit - severe skin irritation

(c) Serious eye damage/ eye irritation

No data available

(d) Respiratory or skin sensitization

No data available

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

No data available

Tumourigenic RTECS criteria:

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or EC.

(g) Reproductive toxicity

No data available

(h) STOT Specific target organ toxicity - single exposure

No data available

(i) STOT Specific target organ toxicity - repeated exposure

No data available

(j) Aspiration hazard

No data available

Potential health effects

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

Ingestion Harmful if ingested. Contains components which may cause organ damage.

Skin Causes irritation on contact with skin.

Eyes Causes irritation.

Signs and Symptoms Exposure

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

Additional Information

Methanol CAS-No -67-56-1 RTECS:PC1400000

SECTION 12: Ecological information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

Aquatic Toxicity

Ethylene Glycol CAS-No 107-21-1

Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96h

Toxicity to Daphnia and other aquatic invertebrates

EC50 Daphnia magna(water flea) - 74,000 mg/l - 24h

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

Do not large quantities enter drains or water course.

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of non-recyclable substances via a licensed waste material processor. Comply with local regulations. Dispose of contaminated packaging as unused product.

SECTION 14: Transport information

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

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 as amended by Regulation (EU) 2453/2010.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other information

Hazard Statements

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H272 May intensify fire; oxidiser.
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.
H319 Causes serious eye irritation
H331 Toxic if inhaled
H335 May cause respiratory irritation.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure

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.