MATERIAL SAFETY DATA SHEET

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

1.1 Product identifiers

Product name: HAEMATOXYLIN GILL (FORMULA III)
Product code: HST006
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: 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
Skin corrosion	Category 1	H314
Eye damage	Category 1	H314
Specific target organ toxicity – Repeated exposure	Category 2	H373

2.2 Label elements

Label elements under CLP:

Hazard statements: H373 May cause damage to the kidneys through repeated exposure by the oral route.

H314 causes severe skin burns and eye damage

Signal words: Danger

Hazard pictograms: GH005: Corrosion

GHS07: Exclamation mark

Precautionary statements:

P264: Wash thoroughly after handling.

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

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

P305+351+338: 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.

P330: Rinse mouth.

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:

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:	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:	Aluminium ammonium sulphate	1-2%	N/A	N/A
CAS NO.	7784-26-1			
EC-NO.	232-055-3			
Name:	Potassium iodate	<0.05%	OX. SOLIDS CAT. 2. SKIN IRRIT. CAT. 2. EYE IRRIT. CAT. 2. STOT SE CAT. 3.	H272 H315, H319. H335
CAS NO.	77-05-6			
EC-NO.	231-831-9			
Name:	Ethylene Glycol	22-25%	ACUTE TOX CAT. 4. STOT RE CAT. 2.	H302 H373
CAS NO.	107-21-1			
EC-NO.	203-473-3			

SECTION 4: First aid measures

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

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 mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

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

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

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. 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

Handling requirements: Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

Component	CAS-No	Value	Control Parameters	Basis
Glacial acetic acid	64-19-7	TWA LTEL – 8h STEL – 15mins	10 ppm – 25mg/m3 20 ppm – 50mg/m3	UK.EH40 WEL-Workplace Exposure limit
Aluminium sulphate hexadecahydrate	16828-11-8	TWA LTEL – 8h	2mg/m3	UK.EH40 WEL-Workplace Exposure limit

Ethylene Glycol	107-21-1	TWA LTEL 8-hr STEL - 15-mins	20 ppm – 52mg/m3 40 ppm – 104mg/m3	UK.EH40 WEL-Workplace Exposure limit

DNEL / PNEC No data available.

8.2 Exposure controls

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

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

Skin protection: Protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state: Liquid.
b) Colour: Reddish/purple
c) Odour: Faintly acetic acid (vinegar)
d) Melting/freezing point No data available
e) Initial boiling point /boiling range: 82 degrees C (untested)
f) Flammability: No data available
g) Upper/lower explosion limits: Not applicable
h) Flash point: Apprx. 28°C (untested)
i) Auto-ignition temperature: Not applicable
j) Decomposition temperature: No data available
k) pH: Aprx. 2-2.3
l) Kinematic viscosity: Not applicable
m) Solubility at 20°C: Water Miscible
n) Partition coefficient n-octanol/water
o) Vapour pressure: No data available
p) Density and/or relative density: No data available
q) Relative vapour density: Not applicable
r) Particle characteristics: Not applicable.

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:

ETHYLENE GLYCOL

IVN	RAT	LD50	3260	mg/kg
ORL	MUS	LD50	5500	mg/kg
ORL	RAT	LD50	4700	mg/km

ALUMINIUM SULPHATE 17% (IRON FREE

ORAL	RAT	LD50	>5,000	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)	ING	Hazardous: calculated

Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be

difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

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

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients:

ALUMINIUM SULPHATE 17% (IRON FREE)

DAPHNIA	96H LC50	38.2	mg/l

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.

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

SECTION 14: Transport information

This product does not require a classification for transport.

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

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: H226 Flammable liquid and vapour.

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through 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.