

SAFETY DATA SHEET

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with this material, as well as describing potential risks to the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material.

This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006 and (EU) No 453/2010

SECTION 1. Identification of the substances/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: **Haematoxylin Ehrlich**
Product Number: **HS330**
Brand: **TCS Biosciences**
IUPAC name: **not determined**

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

Identified uses: For professional use only.

1.3 Details of the supplier of the safety data sheet

Company: TCS Biosciences Ltd
Botolph Claydon, Buckingham,
MK18 2LR, UK
Telephone: +44 (0) 1296 714222
Email address: sales@tcsgroup.co.uk
Web address: www.tcsbiosciences.co.uk

1.4 Emergency telephone number

In case of emergency: 24hr contact number: +44 (0)1296 711205

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008

Flammable Liquid, (Category 3)
Skin irritation (Category 2)
Eye Irritation (Category 2)

2.2 Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

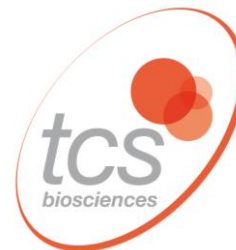


Signal Word

Warning

Hazard Statement(s):

H315 Causes skin irritation
H319 Causes serious eye irritation
H226 Flammable liquid and vapour



Precautionary Statement(s):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

2.3 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

Synonyms: None

Haematoxylin Ehrlich Contains following hazardous substances.

Name	EC No	CAS-No	Content	Classification In accordance with CLP1272/2008
Ethanol	200-578-6	64-17-5	<35%	Flam Liq 2;H225
Methanol	200-659-6	67-56-1	<2%	Flam Liq 2 H225; Acute Tox 3 (oral,derm,inh) H301,H311, H331; STOT SE1 H370
Glacial Acetic Acid	200-580-7	64-19-7	<5%	Flam liq 3; H226 Skin Corr 1A H314
Haematoxylin	208-237-3	517-28-2	<2%	Acute tox 4 oral H302 Skin irrit 2 H315 Eye irrit 2 H319 STOT SE3 H335
Potassium Iodate	231-831-9	7758-05-6	0.01%	Ox solids 2 H272 Skin irrit 2 H315 Eye irrit 2 H319 STOT SE3 H335
Aluminium ammonium Sulphate	232-055-3	7784-26-1	<2%	Skin irrit 2 H315 Eye irrit 2 H319 STOT SE3 H335

Refer to section 16 for additional classification information.

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.

If inhaled

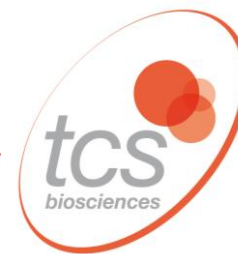
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.

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.



In case of eye contact

IF IN EYES: 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.

If swallowed

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.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-Fighting Measures

5.1 Suitable 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 Precautions for fire-fighters

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.

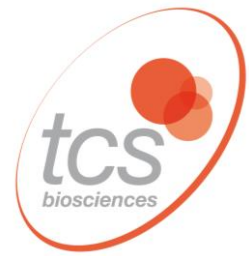
SECTION 7. Handling and Storage

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 uses** 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
Methanol	67-56-1	TWA STEL UK – 15h TWA LTEL UK – 8h	250 ppm 333 mg/m ³ 200ppm 266 mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Ethanol	64-17-5	TWA LTEL – 8h	1000 ppm 1,920 mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Glacial Acetic Acid	64-19-7	TWA LTEL – 8h TWA STEL	10 ppm 25 mg/m ³ 15 ppm 37mg/m ³	UK.EH40 WEL- Workplace Exposure limit

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

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 protective clothing with closed cuffs and closed neck.

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).

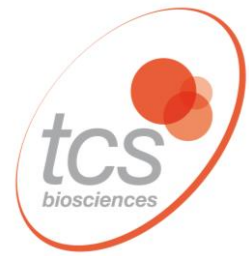
8.2.3 **Environmental Exposure Controls** None

SECTION 9. Physical and Chemical Properties

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

9.1 Information on basic physical and chemical properties

- a) Appearance Form: Reddish/Purple
- b) Odour: slight smell of acetic acid (vinegar)
- 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:	~28°C
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:	No data available
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 information

Particle Size	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	Strong Oxidising agents
10.6 Hazardous decomposition products	Products of Carbon Oxides and Nitrogen Oxides may be on burning or heating. The nature of released decomposition products has not been determined.

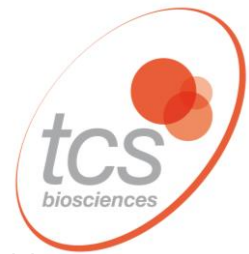
SECTION 11. Toxicological Information

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).

Toxicokinetics

(a) Acute toxicity	Contains Methanol CAS-No: 67-56-1 LDLo Oral – human 300mg/kg LCLo Inhalation - monkey - 1000 ppm - 4h LDLo Dermal - monkey - 393 mg/kg Contains Haematoxylin CAS-No: 517-28-2 LD50 Oral, rat - 400mg/kg
(b) skin corrosion/irritation	No data available.
(c) serious eye damage/irritation	No data available
(d) respiratory or skin sensitization	No sensitisation action is known.
(e) germ cell mutagenicity	No data available
(f) carcinogenicity	No data available.
(g) reproductive toxicity	No data available
(h) STOT - single exposure	No data available
(i) STOT - 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 Maybe harmful if ingested. Contains components which may cause vomiting or other adverse effects such as diarrhoea.

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

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 **Aquatic Toxicity** No data available
- 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**
Product Dispose of non-recyclable substances via a licensed waste material processor. Comply with local regulations.
- Contaminated Packaging** Dispose of as unused product.

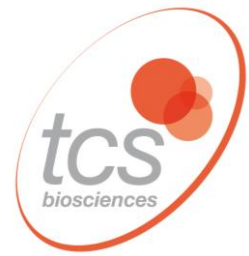
SECTION 14. Transport Information

	ADR/RID	IMDG	IATA
14.1 UN-Number	1170	1170	1170
14.2 UN proper shipping name	ETHANOL SOLUTION	ETHANOL SOLUTION	ETHANOL SOLUTION
14.3 Transport hazard class	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No	Marine pollutant: No	No
14.6 Special precautions for users	No data available		

SECTION 15. Regulatory information

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 and (EU) 453/2010

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
All components are listed as existing substances in Europe
- 15.2 **Chemical Safety Assessment**
A Chemical Safety Assessment has not been carried out for this product.



SECTION 16. Other information

Additional information from Section 3:

Hazard Statement(s)

H302	Harmful if swallowed
H226	Flammable liquid and vapour
H272	May intensify fire; oxidiser.
H314	Causes skin burns and serious eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin
H331	Toxic if inhaled.
H370	Causes damage to organs.

Further information

The information herein is provided in good faith and is correct to the best of our knowledge but makes no representation as to its completeness or accuracy. This safety data sheet is intended for use only as a guide for the appropriate precautionary handling of material by suitably trained persons.

TCS Biosciences Ltd shall not be held liable for any loss, injury or damage which may result from its use.

Issue 1: created 15.05.13

Version 2 created 25.06.2014, update to CLP

v3, created 03.03.2016, removal of classification and labelling according to Directive 1999/45/EEC & 67/548/EE; change to proper shipping name, section 14.

HS330 end