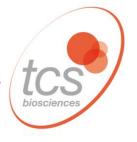


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# SAFETY DATA SHEET

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, in CLP Regulation (EC) No 1272/2008 and in Annex I of the Commission Regulation (EU) No 2015/830.

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

1.1 Product Identifier

Product Name: Picric Acid (Sat. Aqueous)

Product Number: **HS655** 

Brand: TCS Biosciences

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

+44 (0)1296 714222 only available during the following office hours:

Monday – Thursday 8:30 – 17:00 GMT/BST Friday 9:00 – 15:00 GMT/BST

# SECTION 2. Hazards Identification

# 2.1 Classification of the substance or mixture

2.1.1 Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008:

> Skin corrosion (Category 1B) Eye Damage (Category 1)

#### 2.2 Label Elements

**2.2.1** Labelling in accordance with Classification Labelling and Packaging Regulation (EC) No 1272/2008:



Pictogram:
Signal word:
Danger

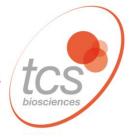
**Hazard Statements** 

H314 Causes severe skin burns and eye damage.



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Precautionary Statement(s)

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

protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/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.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P405 Store locked up.

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

No substance contained in this product meets the criteria for vPvB and PBT according to Regulation (EC) No 1907/2006, Annex XIII; and, no substance within this product is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

# SECTION 3. Composition/Information on Ingredients

#### 3.2 Mixtures

Synonyms: None

Form: Liquid

Component	EC-No	CAS-No	Concentration	Classification in accordance with Regulation (EC) No 1272/2008
Picric Acid	201-865-9	88-89-1	<2%	Expl. 1.1, H201; Acute Tox3, H331 H311 H301.

For full text of the H-Statements mentioned in this section please refer to Section 16

# 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

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

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

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.



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#### 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

Explosive when dry, Forms very sensitive explosive metallic compounds.

#### 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. Avoid breathing fumes/gas/mist/vapours/spray; ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Wash hands thoroughly after handling. Evacuate personnel to safe area.

## 6.2 Environmental precautions

Do not let undiluted product or large quantities enter drains or water course. Avoid discharge to the environment. 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. Avoid spillage and breathing dust or aerosols. Ensure adequate ventilation of the working area. 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)

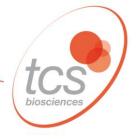
STEL Short Term Exposure Limit LTEL Long Term Exposure Limit

Component	CAS-No	Value	Control Parameters	Basis
Picric acid	88-89-1	TWA LTEL – 8h	0.1 mg/m <sup>3</sup>	UK.EH40 WEL- Workplace
		STEL – 15mins	0.3 mg/m <sup>3</sup>	Exposure limit



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## 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 & Body 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. Promptly remove any contaminated clothing and clean appropriately before reuse. Use chemically resistant complete suit or 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 EN 143 / EN 14387 (EU).

#### Thermal hazards

No specific thermal hazard. Forms explosive mixtures with air on intense heating. Product is stored at room temperature.

# 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) Physical state: Liquid.b) Colour: Yellow

c) Odour: No data available d) Melting/freezing point No data available e) Initial boiling point /boiling range: No data available f) Flammability: No data available g) Upper/lower explosion limits: No data available No data available h) Flash point: i) Auto-ignition temperature: No data available i) Decomposition temperature: No data available

k) pH: 1.4

I) Kinematic viscosity: No data available

m) Solubility at 20°C: Water Miscible

Fat No data available

n) Partition coefficient n-octanol/water

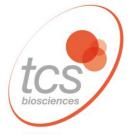
(log value): Not applicable

o) Vapour pressure:
 p) Density and/or relative density:
 q) Relative vapour density:
 r) Particle characteristics:
 No data available
 No data available
 No data available
 No data available



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#### 9.2 Other information

9.2.1. Information with regard to physical hazard classes No data available.

Other safety characteristics

Not applicable.

#### SECTION 10. Stability and Reactivity

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

10.1 Reactivity No data available.

Chemical stability 10.2 Stable under specified conditions of use and storage.

10.3 Possibility of hazardous reactions No data available.

10.4 Conditions to avoid Avoid shock and friction. Heating (explosive decomposition) 10.5 Incompatible materials

Strong bases, Reducing agents, Heavy metals, Heavy metal

10.6 **Hazardous decomposition** 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 has not been fully investigated. Judgements have been made based upon consideration of its major component(s).

## Toxicokinetics - Mixture

Based on available data; the classification criteria are not met. (a) Acute toxicity

Picric acid CAS-No 88-89-1

Acute toxicity (inhal) - ATE = 700 Acute toxicity (oral) - ATE = 100Acute toxicity (dermal) - ATE = 300

(b) Skin corrosion/irritation Based on available data: the classification criteria are met.

(c) Serious eve damage/ eye irritation

Based on available data; the classification criteria are met.

(d) Respiratory or

skin sensitization Based on available data; the classification criteria are not met. Based on available data; the classification criteria are not met. (e) Germ cell mutagenicity

Based on available data, the classification criteria are not met. (f) Carcinogenicity

Tumourigenic RTECS criteria: Based on available data, the classification criteria are not met.

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 Based on available data; the classification criteria are not met.

(h) STOT Specific target organ toxicity

IARC:

- single exposure Based on available data; the classification criteria are not met.

(i) STOT Specific target organ toxicity

- repeated exposure Based on available data; the classification criteria are not met. (j) Aspiration hazard Based on available data; the classification criteria are not met.

Potential health effects

Inhalation Maybe toxic if inhaled.

Ingestion Maybe harmful if swallowed. Causes burns. Causes severe skin burns and eye damage. Skin

**Eyes** Causes eye burns.

Signs and Symptoms

Picric Acid dust causes sensitisation dermatitis. To the best of our of Exposure

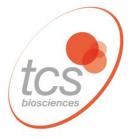
knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.



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11.2 Information on other hazards

11.2.1 Endocrine disrupting No component of this mixture is classified as endocrine

**properties:** disrupting according to Regulation (EU) No 2017/2100.

**11.2.2 Other information:** No data available.

# **SECTION 12.** Ecological Information

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

**12.1 Toxicity** Not classified as acutely or chronically toxic to aquatic organisms.

Toxicity to fish Toxicity to daphnia

and other aquatic No data available.

invertebrates

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential Adverse ecological effects cannot be excluded in the event of

improper handling or disposal.

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 This mixture does not contain any substances that are assessed

to be a PBT or a vPvBs No data available

**12.6** Other adverse effects No data available

# **SECTION 13. Disposal Considerations**

13.1 Waste treatment methods

13.1.1 Product Dispose of as hazardous waste and offer non-recyclable

solutions to a licensed waste material processor. Comply with local

regulations.

**Contaminated Packaging** Dispose of as unused product.

# SECTION 14. Transport Information

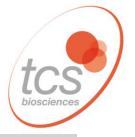
Not regulated as dangerous goods under ADR/RID, IMDG, or IATA

		ADR/RID	IMDG	IATA
14.1	UN-Number	na	na	na
14.2	UN proper shipping name	na	na	na
14.3	Transport hazard class(es)	na	na	na
14.4	Packaging group	na	na	na
14.5	Environmental hazards	No	Marine pollutant: No	No
14.6	Special precautions for users	No data available		
14.7	Maritime transport in bulk according to IMO instruments	No data available		



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## SECTION 15. Regulatory information

This Safety Data Sheet complies with the requirements of Regulations (EC) No. 1907/2006 and its amendments (EU) No. 453/2010 & (EU) No. 2015/830; and (EC) No. 1272/2008.

- 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)	١
			_

H201 Explosive; mass explosion hazard

H331 Toxic if inhaled.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

#### **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.

V1: created 19.06.2013

V2: created 31.08.2014 updated to CLP Classification

V3.0 created 03.03.2016, change to classification; removal of classification and labelling according to Directive 1999/45//EEC & 67/548/EEC.

V4.0 created 01.04.2017 addition of StainHD logo

Version 5 created 25.08.2022, change to classification, format updated to comply with Annex II of REACH.

HS655 end