

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: **Michel Medium**
Product Number: **HC8728**
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 in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008:

Skin Irritation (Category 2)
Eye Irritation (Category 2)

2.2 Label Elements

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

Pictogram:



Signal Word:

Warning

Hazard Statement(s):

H315 Causes skin irritation.
 H319 Causes serious eye irritation

Precautionary Statement(s)

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

SECTION 3. Composition/Information on Ingredients**3.2 Mixtures**

Synonyms: None

Component	CAS-No	EC-no	Concentration	Classification In accordance with CLP 1272/2008
N-Ethylmaleimide	128-53-0	204-892-4	<0.1%	Skin Corr.1B;H314 Acute Tox 2;H300 Acute tox 3;H311 Skin sens 1;H317
Citric Acid	5941-29-1	5949-29-1	<2%	Eye irrit 2;H319
Potassium Hydroxide	1310-58-3	215-181-3	<2%	Acute tox 4;H302 Skin Corr 1A; H314

Refer to section 16 for additional classification information and full text of the H-statements mentioned in this section.

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

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 if you feel unwell.

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
For large fires immediately alert fire emergency services. Evacuate personnel to safe area.

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

6.2 Environmental precautions

Do not let undiluted product or 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 environmental regulations. Wash spillage site with water and appropriate detergent and retain washings as environmentally hazardous waste.

6.4 Reference to other sections

For disposal refer to section 13.

SECTION 7. Handling and Storage**7.1 Precautions for safe handling**

Avoid contact with eyes and skin. Avoid spillage and breathing aerosols. Ensure adequate ventilation of the working area. Wear appropriate personal protective equipment provided.

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**

No components with workplace control parameters

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) as required.

Skin Protection

Handle with chemical-resistant, impervious gloves 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.

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

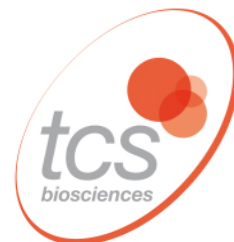
Respiratory protection is not required. Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. For nuisance exposures use respirator and/ or air hood where local exhaust ventilation is inadequate Use products tested and approved to appropriate government standards such as NIOSH (US) or EN 143 / EN 14387 (EU).

8.2.3 Environmental Exposure Controls Do not empty in to drains.**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:	Clear liquid
b) Odour:	None
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:	No data available
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

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** No data available
- 10.6 **Hazardous decomposition products** No data available
 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

- (a) Acute toxicity **(Cas No 128-53-0) - LD50 Oral, Rat - 25mg/L**
LD50 Dermal, guinea pig - 500mg/kg
(Cas No 1310-58-3) - LD50 Oral, Rat - 273mg/L
- (b) Skin corrosion/irritation **(Cas No 1310-58-3) Skin-rabbit-Severe irritation – 24 h**
- (c) Serious eye damage/ eye irritation **(Cas No 1310-58-3) Eyes-rabbit-Severe irritation – 24 h**
- (d) Respiratory or skin sensitization **(Cas No 128-53-0)** may cause sensitisation by skin contact.
- (e) Germ cell mutagenicity No data available
- (f) Carcinogenicity
 Tumourigenic **IARC:** – not listed: IARC, ACGIH, NIOSH, OSHA.
 No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
- (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** Maybe harmful if ingested. Contains components which may cause vomiting or other adverse effects such as diarrhoea.
- Skin** May cause irritation on contact with skin.

Eyes May cause irritation.

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

Additional Information

RTECS: Cas No 1310-83-3 – TT2100000
Cas No 128-53-0 – UX9625000

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	Adverse ecological effects cannot be excluded in the event of improper handling or disposal.
	Cas No 1310-58-3:LC50 – Gambusia affinis (Mosquito Fish) = 80 mg/L -96h
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	Do not let undiluted product or large quantities enter drains or water course. Inform responsible authorities as appropriate.
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 as hazardous waste via a licensed waste material processor. Comply with local regulations.
Product	
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	n/a	n/a	n/a
14.2 UN proper shipping name	n/a	n/a	n/a
14.3 Transport hazard class(es)	n/a	n/a	n/a
14.4 Packaging group	n/a	n/a	n/a
14.5 Environmental hazards	No	Marine pollutant: No	No
14.6 Special precautions for users	No data available		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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 Statements**

H300	Fatal if swallowed.
H311	Toxic if swallowed
H317	May cause allergic skin reaction.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.

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 29.10.2013

Issue 2: created 08.01.2014 Updated CLP Classification

Issue 3: created 01.04.2017 Removal of classification and labelling according to Directive 1999/45/EEC & 67/548/EEC, addition of StainHD logo

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