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**MATERIAL SAFETY DATA SHEET**

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

**Product name:** MICHEL'S SOLUTION  
**Item Code:** NSI-002377 and NSI-002378  
**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

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**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**

**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.

### 2.3 Other hazards

No data available.

**PBT:** This product is not identified as a PBT/vPvB substance.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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	5941-29-1	<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.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

**Skin contact:** 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.

<b>Eye contact:</b>	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.
<b>Ingestion:</b>	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.
<b>Inhalation:</b>	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.

#### **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**

##### **Immediate / special treatment:**

No data available.

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### **SECTION 5: Firefighting measures**

#### **5.1 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 Advice for firefighters**

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

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### **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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Handling requirements:

Avoid contact with skin and eyes. 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

#### Storage conditions:

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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No data available

#### DNEL / PNEC

No data available.

### 8.2 Exposure controls

#### Engineering measures:

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

**Respiratory protection:**

Respiratory protection 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).

**Hand 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.

**Eye 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:**

Use chemically resistant protective clothing with closed cuffs and closed neck, appropriate to the concentration /amount of the dangerous substance at the specific workplace Promptly remove any contaminated clothing and clean appropriately before reuse.

**Environmental:**

Do not let product enter drains.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**State:** Clear liquid

**9.2 Other safety information**

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**

No data available.

**10.6 Hazardous decomposition products**

No data available.

The nature of released decomposition products has not been determined.

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**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 – not listed: IARC, ACGIH, NIOSH, OSHA.  
Tumourigenic IARC: 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

#### Skin contact:

May cause irritation on contact with skin.

#### Eye contact:

There may be irritation and redness.

#### Ingestion:

Maybe harmful if ingested. Contains components which may cause vomiting or other adverse effects such as diarrhoea.

#### Inhalation:

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

### Signs and Symptoms of Exposure

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

#### Other information:

RTECS: Cas No 1310-83-3 – TT2100000

Cas No 128-53-0 – UX9625000

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## SECTION 12: Ecological information

### 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

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

No data available.

#### 12.6 Other adverse effects

No data available.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Disposal operations:** Dispose of as hazardous waste via a licensed waste material processor. Comply with local regulations.

**Disposal of packaging:** Dispose of as unused product.

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

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### SECTION 14: Transport information

This product does not require a classification for transport.

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### 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

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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### SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.



## Further information

## 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.

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.