



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

#### 1.1 Product identifier:

**Product name:** microLYSIS® 1 ml & 50 ml  
**Product no.:** ML-1 & ML50  
**Brand:** Microzone Ltd  
**REACH no.:** A registration number is not available for this reagent as the reagent or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline

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

**Identified uses:** Scientific research and development only

#### 1.3 Details of the supplier of the safety data sheet:

**Company:** Microzone Ltd  
Sussex Innovation Centre  
Science Park Square  
Falmer, Brighton  
BN1 9SB  
UNITED KINGDOM  
**Telephone:** +44 (0) 1444 810 732  
**E-mail:** info@microzone.co.uk

**1.4 EMERGENCY PHONE:** +44 (0) 1444 810 732

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Skin irritation H315

Serious eye damage H319

For the full text of the H-Statement mentioned in this Section, see Section 16.

#### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008**

**Hazard pictogram:** None

**Signal word:** None

**Hazard statements:**

H315 Causes skin irritation

H319 Causes serious eye damage



**Precautionary statements:** This product should be handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice

**Supplemental Hazard statements:** None

### 2.3 Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)

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## SECTION 3. Composition/information on ingredients

**3.1 Substances**  
not applicable

### 3.2 Mixtures

**Description of the mixture:** Proprietary mixture

**Hazardous ingredients:** Harmful; Harmful if swallowed; Harmful to eyes, respiratory system and skin.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Consult a physician. Show this safety data sheet to the doctor in attendance

#### Following inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

#### Following skin contact

Wash off with soap and plenty of water. Consult a physician

#### Following eye contact

Flush eyes with water as a precaution

#### Following ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available



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### SECTION 5: Firefighting measures

- 5.1 **Extinguishing media**  
**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- 5.2 **Special hazards arising from the substance or mixture**  
Nature of decomposition not known
- 5.3 **Advice for fire-fighters**  
Wear self-contained breathing apparatus for firefighting if necessary
- 5.4 **Further information**  
No data available

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### SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8
- 6.2 **Environmental precautions**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 **Methods and material for containment and cleaning up**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal
- 6.4 **Reference to other sections**  
For disposal see section 13

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### SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**  
See section 2.2
- 7.2 **Conditions for safe storage, including any incompatibilities**  
Keep container tightly closed in a dry and well-ventilated place. Store in cool place  
Recommended storage temperature +4°C
- 7.3 **Specific end uses**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values

#### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

The selected protective gloves have to satisfy the specification of EU Directive 89/686/EEC and the standard EN 374 derived from it

##### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill<sup>®</sup> (KCL 740 / Aldrich Z677272, Size M)

##### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill<sup>®</sup> (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300

Test method: EN374

If used in solution, or mixed with other substances and under conditions which differ from EN374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It would not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace



### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

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## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance:	Liquid
b) Physical state:	Semi-viscous
c) Colour:	Clear
d) Odour:	None
e) Odour threshold:	No data available
f) pH:	No data available
g) Melting point/freezing point:	No data available
h) Initial boiling point and boiling range:	No data available
i) Flash point:	No data available
j) Evaporation rate:	No data available
k) Flammability (solid gas):	No data available
l) Upper/lower flammability or explosive limits:	No data available
m) Vapour pressure:	No data available
n) Vapour density:	No data available
o) Relative density:	No data available
p) Water solubility:	No data available
q) Partition coefficient:	No data available
r) Auto-ignition:	No data available
s) Decomposition temperature:	No data available
t) Viscosity:	No data available
u) Explosive properties:	No data available
v) Oxidizing properties:	No data available

### 9.2 Other information:

No data available



### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid:

No data available

#### 10.5 Incompatible materials / Materials to avoid::

No data available

#### 10.6 Hazardous decomposition products:

No decomposition if stored and applied as directed

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

No data available

##### Skin corrosion/irritation

No data available

##### Serious eye damage/eye irritation

No data available

##### Respiratory or skin sensitisation

###### Skin sensitisation

No data available

###### Respiratory sensitisation

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

No data available

##### Reproductive toxicity

No data available



**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

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### SECTION 12: Ecological information

**12.1 Toxicity:**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

**12.6 Other adverse effects:**

No data available

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### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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### SECTION 14: Transport information

**14.1 UN number**

Not regulated as dangerous goods

**14.2 UN proper shipping name**

Not regulated as dangerous goods

**14.3 Transport hazard class(es)**



Not regulated as dangerous goods

14.4 **Packaging group**

Not regulated as dangerous goods

14.5 **Environmental hazards**

Not regulated as dangerous goods

14.6 **Special precautions for user**

Note: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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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**

For this product a chemical safety assessment is not required when it is used in the specified applications

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### SECTION 16: Other information

#### Further information

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