# Vickers Laboratories Ltd - Safety Data Sheet

2619

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021 Date printed: 03 February 2023

**Section 1. Identification** 

1.1 Product Identifier 2619

Product Name TYTRONICS MANGANESE ALKALINE REAGENT (R1)

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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(Have this document to hand)

### Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B

Acute toxicity, category 4 (oral)
Spec target organ tox - single, category 3

Spec target organ tox - single, category 3

H335: May cause respiratory irritation.

Hazard to aquatic environment, category 3 H412: Harmful to aquatic life with long lasting effects.

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

#### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to

aquatic life with long lasting effects.

Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves /

protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and

continue rinsing.

## Section 3. Composition

#### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ethanolamine	141-43-5	205-483-3	01-2119486455-28-XXXX	45%	Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),Acute Tox. 4 (I),STOT SE 3 (I),Aquatic Chronic 3
Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27-XXXX	3.4%	Skin Corr. 1A,STOT SE 3 (I)

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure. Keep warm and at rest. Remove from exposure. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

## Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

#### 6.2 Environmental precautions

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental

Agency and local Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious

Minor Spillage Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well separated from acids.

#### 7.3 Specific end use(s)

See section 1.2.

### Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term 15min period)			
Ethanolamine	141-43-5	45%	1.0 ppm	2.5 mg/m-3	3.0 ppm	7.6 mg/m-3		
Hydrochloric acid	7647-01-0	3.4%	1.0 ppm	2.0 mg/m-3	5.0 ppm	8.0 mg/m-3		

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Use chemical full face shield. Eye Protection

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

### Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance Pale straw coloured liquid. Odour Faint 'amine-like: odour.

14 @ 20°C рH **Boiling Point** Not available Melting Point Not applicable Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable

Not applicable **Explosive Properties** No. Oxidising Properties No.

Auto Ignition

Vapour Pressure Not applicable Relative Density 1.0300

Water Solubility Completely soluble in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid No specific conditions.

**10.5** Incompatable Materials Acids. Strong oxidising agents.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire.

Products

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The liquid will cause severe burns.

Skin The liquid will cause severe burns.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

LD50 Oral >2000mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

### Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental

hazard.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.

**12.4** Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

**12.6** Other adverse effects None known at present.

# Section 13. Disposal Considerations

## 13.1 Waste treatment methods

assessment

Disposal Methods Dispose of in a licensed incinerator.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

### **Section 14. Transport Information**

**14.1 UN Number** 2491

14.2 Proper Shipping Name Ethanolamine

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



## Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Spec target organ tox - single, category 3;

Hazard to aquatic environment, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H302, H314, H335, H412

Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to

aquatic life with long lasting effects.

 $Precautionary\ Statements \qquad P264,\ P270,\ P280,\ P301+P330+P331,\ P303+P361+P353,\ P305+P351+P338$ 

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and

continue rinsing.

#### 15.2 Chemical safety assessment

Assessment not required.

### **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information

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