Vickers Laboratories Ltd - Safety Data Sheet

3731

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

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 3731

Product Name HARDNESS INDICATOR (ERIO-CHROME)

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

Acute toxicity, category 4 (oral)

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 1

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 3731



Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through Hazard Statements

prolonged or repeated exposure.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Section 3. Composition

3.2 Mixtures

Component	CAS No. EEC No. REACH No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Diethanolamine	111-42-2			75%	Acute Tox. 4 (O), Skin Irrit. 2, Eye Dam. 1, STOT RE 2	
Ethanol Industrial	64-17-5	200-578-6	01-2119457610-43-XXXX	25%	Flam. Liq. 2,Eye Irrit. 2,STOT SE 2	

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists Eyes

OBTAIN MEDICAL ATTENTION.

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

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

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

breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. 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 Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep 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 salvage container for removal. Wash area down with

copious amounts of water.

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

All transfer systems should be earthed to prevent accumulation of static electricity. 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

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	t CAS No Concentration		Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Diethanolamine	111-42-2	75%	3.0 ppm	-	15.0 ppm	-	
Ethanol Industrial	64-17-5	25%	1000.0 ppm	1920.0 mg/m-3	_	_	

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

8.2 Exposure controls

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

Hand Protection Use solvent resistant gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

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 Black viscous liquid.
Odour Fresh and characteristic.

pH 11 @ 20°C Boiling Point 269°C Melting Point 28°C

Flash Point 154.4°C (Closed cup)

Upper Flammable Limit 10% Lower Flammable Limit 1%

Auto Ignition Not applicable

Explosive Properties Slight.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0900

Water Solubility Moderately 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 N

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Mineral acids. Strong oxidising agents.

10.6 Hazardous Decomposition Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid or concentrated vapour will cause severe irritation and corneal damage.

Skin The liquid will be irritating to the skin. May be absorbed through the skin. May cause skin sensitisation.

LD50 Skin 3000mg/kg Rabbit

Ingestion Moderately toxic by ingestion. Ingestion of large amounts may cause severe internal irritation and damage,

nausea, vomiting, abdominal pains and diarrhoea.

LD50 Oral 1410mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes and

respiratory tract. High concentrations of vapour may cause loss of appetite, dizziness, fatigue and nausea. Liver

and kidney damage may also occur.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Not teratogenic but high doses have caused maternal and foetal toxicity.

Section 12. Ecological

12.1 Toxicity Readily bio-degraded in the environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not 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 & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1 UN Number 2920

14.2 Proper Shipping Name Corrosive liquid, flammable, N.O.S.

(Diethanolamine, Ethanol)

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) 3
Transport category 2
ADR Hazard ID 83
Tunnel Restriction Code D/E

14.4 Packing Group II

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 Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1;

Spec target organ tox - repeat, category 2

Signal word Danger

Hazard Pictograms







Hazard Statements H302, H315, H318, H373

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through

prolonged or repeated exposure.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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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