# Vickers Laboratories Ltd - Safety Data Sheet

3632

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

Revision: 2.0 Revision date: 20 June 2025 (Replaces revision 1.1 of 16 April 2021) Date printed: 17 October 2025

### **Section 1. Identification**

1.1 Product Identifier 3632

Product Name KARL FISCHER VOLUMETRIC COMP. REAGENT-5mg/ml water

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 (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

Spec target organ tox - single, category 2 H371: May cause damage to organs.

#### 2.2 Label elements

#### Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms





Hazard Statements Causes severe skin burns and eye damage. May damage fertility or the unborn child. May cause damage to lungs.

Precautionary Statements Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective

clothing / eye protection / face protection. Wash thoroughly after handling. 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.	EC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Iodine	7553-56-2	231-442-4		10 -25%	Acute Tox. 4 (D), Acute Tox. 4 (I), STOT SE 3 (I), STOT RE 1, Aquatic Acute 1
Imidazole	288-32-4	206-019-2		10 -25%	Skin Corr. 1C,Acute Tox. 4 (O),Eye Dam. 1,Repr. 1B
Sulphur Dioxide	7446-09-5	231-195-2		2.5 -10%	Press. Gas (Comp),Skin Corr. 1B,Acute Tox. 3 (I),STOT SE 1

### **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. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting, OBTAIN MEDICAL

ATTENTION.

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 May evolve toxic fumes if involved in a fire.

### 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 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 Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. Keep material

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out of sewers, storm drains, surface waters and soil.

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

Major Spillage Contain and absorb on inert material. Transfer absorbent to container for removal.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal.

#### 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 dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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

Well ventilated, cool, dry storage.

#### 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)		
Iodine	7553-56-2	10 -25%	-	-	0.1 ppm	1.0 mg/m-3	
Imidazole	288-32-4	10 -25%	-	-	-	-	
Sulphur Dioxide	7446-09-5	2.5 -10%	-	=	=	-	

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

### 8.2 Exposure controls

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

Hand Protection Use PVC gauntlets.

Skin Protection 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 Orange-brown to dark orange-brown solution.

Odour Pungent.
pH Not applicable
Boiling Point Not available
Melting Point Not applicable
Flash Point 93°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties
Oxidising Properties
No.

Vapour Pressure Not applicable
Relative Density Not available
Water Solubility Immiscible with water.

#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

10.3 Possibility of hazardous No data available.

reactions

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

10.5 Incompatible materials Strong oxidising agents.

10.6 Not determined. Hazardous Decomposition

Products

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes Contact with the liquid will cause burns. Skin Contact with the liquid will cause burns.

LD50 Skin Not available

Ingestion Ingestion will cause causes damage to stomach and intestinal linings.

LD50 Oral Not available

Inhalation Harmful by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity No information is available. Mutagenicity No information is available.

Reproductive Effects May damage fertility or the unborn child.

Other Information The vapour can be detected from its smell at 1ppm. This does not, however, act as a reliable warning due to

olfactory fatigue.

### Section 12. Ecological

12.1 Toxicity Moderately toxic to mammals, fish and bacteria.

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.

Results of PBT & vPvB

assessment

Assessment not required.

**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. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

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

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

**14.1 UN Number** 1760

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

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) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Skin corrosion/irritation, category 1B; Reproductive toxicity, category 1B; Spec target organ tox - single, category 2

Signal word Danger

Hazard Pictograms





Hazard Statements H314, H360, H371

Causes severe skin burns and eye damage. May damage fertility or the unborn child. May cause damage to lungs.

Precautionary Statements P202, P280, P264, P301+P330+P331, P303+P361+P353, P305+P351+P338

Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. 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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