# Vickers Laboratories Ltd - Safety Data Sheet

**U17**.

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

Revision: 2.0 Revision date: 21 April 2021 (Replaces revision 1.1 of 16 April 2021) Date printed: 12 August 2023

## **Section 1. Identification**

1.1 Product Identifier 0171

Product Name PHENYLHYDRAZINE

CAS Number 100-63-0

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.

Molecular Formula  $C_{6}H_{8}N_{2} = 108.14$ 

#### 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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4hr) 11

(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 3 (oral)

Acute toxicity, category 3 (dermal)

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

Acute toxicity, category 3 (inhalation)

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 2

Skin sensitization, category 1

H31: Toxic if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

Carcinogenicity, category 1B H350: May cause cancer.

Spec target organ tox - repeat, category 1 H372: Causes damage to organs through prolonged or repeated exposure.

H341: Suspected of causing genetic defects.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

### 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Germ cell mutagenicity, category 2

Signal word Danger

Hazard Pictograms







Hazard Statements Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye irritation. Toxic if inhaled. May cause cancer. Suspected of causing genetic defects. Causes damage to

organs through prolonged or repeated exposure. Very toxic to aquatic life.

Precautionary Statements Obtain special instructions before use. Avoid breathing dust / fume / gas / mist / vapours / spray. Avoid release to

the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Phenylhydrazine	100-63-0	202-873-5		>97%	Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Muta. 2, Carc. 1B, STOT RE 1, Aquatic Acute 1

# **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. OBTAIN MEDICAL Eyes

ATTENTION.

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

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.

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

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.

#### 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, 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. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

### 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 Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. 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

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	CAS No	Concentration	Workplace Exposure Limits					
				Long Term (	8hr TWA)	Short Term 15min period)			
ĺ	Phenylhydrazine	100-63-0	>97%	=	-	-	=		

Exposure data source(s) No occupational exposure data currently available.

### 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 solvent resistant gloves.

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 Clear colourless liquid.
Odour No data available.
pH Not applicable
Boiling Point Not available

238 - 241°C Melting Point 89°C (Closed cup) Flash Point Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No data available.

Oxidising Properties No.

1.35hPa @ 60°C Vapour Pressure Relative Density 1.098g/mlWater Solubility Not available

#### 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 Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Strong oxidising agents.

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

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Causes serious eye damage. Eyes Skin Causes skin irritation.

LD50 Skin Not available

Ingestion Harmful if swallowed.

LD50 Oral 188mg/kg Rat

Inhalation Toxic if inhaled. May cause respiratory tract irritation. Symptons of exposure may include burning sensation,

coughing, wheesing, shortness of breath,

LD50 Inhalation 2610mg/m3 Rat **TCLo** Not available

Carcinogenicity Carcinogenicity, category 1B. Classed as a potential human carcinogen.

Mutagenicity Suspected of causing genetic defects.

Reproductive Effects Evidence of reproductive effects.

# Section 12. Ecological

12.1 Toxicity Harmful to aquatic life.

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

12.6 Other adverse effects

Assessment not required.

assessment

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 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 2572

14.2 Proper Shipping Name Phenylhydrazine

14.3 Transport classes

UN classification 6.1 Subsidiary hazard(s) None Transport category ADR Hazard ID 60 Tunnel Restriction Code D/E 14.4 Packing Group

14.5 Environment hazards Marine pollutant.

No special precautions required. 14.6 Special precautions for

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 3 (oral); Acute toxicity, category 3 (dermal); Acute toxicity, category 3 (inhalation); Skin

corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Skin sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Spec target organ tox - repeat, category 1; Hazard to aquatic

TOXIC

environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H301, H311, H315, H317, H319, H331, H350, H341, H372, H400

> Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause cancer. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.

Precautionary Statements P201, P261, P273, P280, P301+P310, P305+P351+P338

Obtain special instructions before use. Avoid breathing dust / fume / gas / mist / vapours / spray. Avoid release to

the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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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