Vickers Laboratories Ltd - Safety Data Sheet

otion (EC) 1272/2009)

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

Revision: 2.1 Revision date: 16 April 2021 Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0472

Product Name NITROBENZENE pure

CAS Number 98-95-3

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. H. NO. = 123.06

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 3 (oral)

H301: Toxic if swallowed.

Acute toxicity, category 3 (dermal)

H311: Toxic in contact with skin.

Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.

Carcinogenicity, category 2 H351: Suspected of causing cancer.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

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

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

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. May damage fertility or the unborn child.

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to

aquatic life with long lasting effects.

Precautionary Statements 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.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Nitrobenzene	98-95-3	202-716-0			Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), Carc. 2, Repr. 1B, STOT RE 1, Aquatic Chronic 3

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 Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately avoiding

contamination of unaffected areas. Transfer to hospital as soon as possible.

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

breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion Wash out the patients mouth thoroughly with water. 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 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. Only re-enter area with full protective clothing and breathing apparatus. 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 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

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

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. Keep containers closed when not in use. Keep container upright.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

ĺ	Component	CAS No	Concentration	Workplace Exposure Limits			
I				Long Term (8hr TWA)		Short Term 15min period)	
Ī	Nitrobenzene	98-95-3	>99%	0.2 ppm	1.0 mg/m-3	0.6 ppm	3.0 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.

Skin Protection Avoid contact with skin. The liquid can be absorbed through the skin on prolonged contact If skin contact or

contamination of clothing is likely, protective clothing must be worn. IF ON CLOTHING: Rinse immediately

contaminated clothing and skin with plenty of water before removing clothes.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Straw coloured liquid.
Odour No data available.
pH 6.5 (1.9 g/L) @ 20 C

Boiling Point 210.8 °C Melting Point 5.26 °C

Flash Point 88.0 °C (Closed cup)

Upper Flammable Limit 40% Lower Flammable Limit 1.8% 480 °C Auto Ignition

Explosive Properties No data available. Oxidising Properties No data available. Vapour Pressure 20 Pa @ 20 °C 1.200 @ 20 °C Relative Density 1.9g/L @ 20 °C Water Solubility

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 Incompatable Materials Oxidising agents, strong bases, strong reducing agents and strong acids.

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

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid may, cause conjunctival irritation and corneal damage.

Skin Toxic in contact with skin. The liquid will be irritating to the skin. May be absorbed through the skin. A single

prolonged exposure may result in the material being absorbed in harmful amounts. Absorption leads to the

formation of methemoglobin which causes cyanosis.

LD50 Skin 2100 mg/Kg Rat Ingestion Toxic if swallowed. LD50 Oral 349 mg/Kg Rat

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

LD50 Inhalation 556 ppm Rat **TCLo** Not available

Carcinogenicity Must be considered to have carcinogenic properties.

Mutagenicity No information is available.

Reproductive Effects Suspected of damaging fertility or the unborn child.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic species and may cause long term adverse effects in the aquatic environment.

LC50 Algal 51.6 mg/L Green algae (72 hours)

LC50 Crustacea Not available

LC50 Fish 44 mg/L Fathead Minnow

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

Assessment not required.

Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Section 14. Transport Information

14.1 UN Number 1662

14.2 Proper Shipping Name Nitrobenzene

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID

Tunnel Restriction Code B/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.



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);

Carcinogenicity, category 2; Reproductive toxicity, category 1B; Spec target organ tox - repeat, category 1; Hazard

TOXIC

to aquatic environment, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H301, H311, H331, H360, H351, H372, H412

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. May damage fertility or the unborn child. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to

aquatic life with long lasting effects.

Precautionary Statements P261, P273, P280, P301+P310

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.

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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