Scientific Laboratory Supplies - Safety Data Sheet

CHE1460

(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: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE1460

Product Name 2-CHLOROBUTANE pure 100ml.

CAS Number 78-86-4

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 CH, CH, CH, CHClCH, =92.57

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 Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 2 H225: Highly flammable liquid and vapour. Corrosive to metals, category 1 H290: May be corrosive to metals.

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 Highly flammable liquid and vapour. May be corrosive to metals. Harmful to aquatic life with long lasting effects.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving

equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep cool.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
2-Chlorobutane	78-86-4	201-151-4		>99%	Flam. Liq. 2,Met. Corr. 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 Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

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. 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.

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 Nothing specified.

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

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Ref: CHE1460

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Cover with an activated carbon adsorbent. Sweep up, place in a bag and hold for waste disposal. Ventilate area

and wash spill site after material pickup is complete. Use non-metallic tools only.

Minor Spillage Cover with an activated carbon adsorbent. Sweep up, place in a bag and hold for waste disposal. Ventilate area

and wash spill site after material pickup is complete. Use non-metallic tools only.

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

Keep containers closed when not in use. Wash throughly after handling.

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)		
2-Chlorobutane	78-86-4	>99%	-	-	-	-	

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

8.2 Exposure controls

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 Clear colourless liquid.
Odour Fresh and characteristic.

pH Not applicable
Boiling Point 68-70°C
Melting Point -140°C

Flash Point
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
-15°C (Closed cup)
Not applicable
Not applicable
Not applicable

Explosive Properties The vapours will form explosive mixtures with air.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 0.8730 Water Solubility 0.1%

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. Alkalis.

10.6 In combustion emits toxic fumes of Hydrogen chloride gas, carbon dioxide & carbon monoxide. **Hazardous Decomposition**

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid may be irritating to the eyes.

Skin The liquid may be harmful if absorbed through the skin.

LD50 Skin 20ml/kg Rabbit

Ingestion May be harmful by ingestion.

LD50 Oral 20ml/kg Rat

Inhalation Harmful by inhalation.

LD50 Inhalation Not available **TCLo** 8000ppm

Carcinogenicity Possible Carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information To the best of our knowledge, the chemical, physical, & toxicological properties have not been throughly

investigated.

Section 12. Ecological

12.1 Toxicity No data available.

> LC50 Algal 67 mg/L Algae (72 hours) LC50 Crustacea 99,9 mg/L Daphnia (24 hours)

LC50 Fish 75.5 mg/L Fish (48 hours)

12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. No data available. 12.4 Mobility in soil

12.5 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 Burn in a chemical incinerator equipped with afterburners and scrubbers. Exert extra care in igniting as this

material is highly flammable.

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

national regulations.

Section 14. Transport Information

14.1 UN Number 1127

14.2 Proper Shipping Name Chlorobutanes

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 33
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for user

t 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)

No special precautions required.

Classification Flammable liquid, category 2; Corrosive to metals, category 1; Hazard to aquatic environment, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H290, H412

Highly flammable liquid and vapour. May be corrosive to metals. Harmful to aquatic life with long lasting effects.

Precautionary Statements P210, P240, P280, P303+P361+P353, P403+P235

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep cool.

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.

Revision number: 2.0 (Supercedes revision 1.1)

Revision date: 21 April 2021

Reviewed by chemist: 21 April 2021

Printed date: 16 September 2024

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