Revis. date
01.11.2024
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14.04.2026

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Reference: DA003401
CAS number: 3153-37-5
Name: 4-Chlorobutyric Acid Methyl Ester

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals. manufacture of chemical compounds
Restrictions on use: For use in laboratory only.

1.3 Supplier

Company: Indagoo Research Chemicals
Registry number: 81777290
REACH number. No data available

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture under CLP according to (EC) 1272/2008

Flammable liquids.(Category 3). H226
For the full text of the H-Statements mentioned in this Section. see Section 16.

2.2 Label elements

Signal word: danger

Hazard statements
H226 Flammable liquid and vapor

Precautionary statements
P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 4-Chlorobutyric Acid Methyl Ester
CAS Number: 3153-37-5
Molecular Formula: C5H9ClO2
Molecular Weight: 136.5768 g/mol

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.
If inhaled
If breathed in. move person into fresh air. If not breathing. give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media

Use water spray. alcohol-resistant foam. dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides. nitrogen oxides (NOx). Hydrogen bromide gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours. mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable. closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
Normal measures for preventive fire protection.
For precautions see section 2.

7.2 Conditions for safe storage, including any incompatibilities

Keep in dry area.
2-8°C.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1. no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance / Physical state: liquid
Odour: no data available
Odour threshold: no data available
pH: no data available
Melting point: no data available
Boiling point: 175.5°C at 760 mmHg
Flash point: None
Evaporation rate: no data available
Flammability: no data available
Upper/lower flammability or explosive limits: No data available
Vapour pressure: no data available
Vapour density: no data available
Relative density: no data available
Water solubility: no data available
Partition coefficient (n-octanol/water): no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available

Log Pow: no data available
Viscosity: no data available
Explosive properties: no data available
Oxidising properties: no data available

9.2. Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: no data available
10.2 Chemical stability: Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions: no data available
10.4 Conditions to avoid: no data available
10.5 Incompatible materials: no data available
10.6 Hazardous decomposition products: no data available
10.7 In case of fire: See section 5

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: Classified based on available data. For more details. see section 2
11.2 Skin corrosion: Classified based on available data. For more details. see section 2
11.3 Serious eye damage: Classified based on available data. For more details. see section 2
11.4 Respiratory or skin sensitisation: Classified based on available data. For more details. see section 2
11.5 Germ cell mutagenicity: Classified based on available data. For more details. see section 2
11.6 Carcinogenicity:

11.6.1 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable. possible or confirmed human carcinogen by IARC

11.6.2 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

11.6.3 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

11.6.4 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

11.7.1. Specific target organ toxicity – single exposure: no data available

11.7.2. Specific target organ toxicity – repeated exposure: no data available

11.8 Aspiration hazard: no data available

11.9 Additional information: no data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity: no data 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 and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties: No data available
12.7 Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste from residues / unused products: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging: Dispose of as unused product.

13.3 European Waste Catalogue (EWC): No data available

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: UN 3272 IMDG: UN 3272 IATA-DGR: UN 3272

14.2 Proper shipping name
ADR/RID: liquid. corrosive. n.o.s (4-Chlorobutyric Acid Methyl Ester) IMDG: liquid. corrosive. n.o.s (4-Chlorobutyric Acid Methyl Ester) IATA-DGR: liquid. corrosive. n.o.s (4-Chlorobutyric Acid Methyl Ester)

14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA-DGR: 3

14.4 Packing group
ADR/RID: III IMDG: III IATA-DGR: III

14.5 Environmental hazards
ADR/RID: - IMDG: - IATA-DGR: -

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to IMO instruments
No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Component:
4-Chlorobutyric Acid Methyl Ester

Regulation:
REACH (1907/2006) - Annex XIV - Substances subject to authorization
REACH (1907/2006) - Annex XVII - Restrictions on certain hazardous substances
REACH Regulation (EC 1907/2006) Article 59 - Candidate List of Substances of Very High Concern (SVHC)

Regulatory listings:
EINECS, IECSC, ENCS, TCSI, TSCA, NZIOC, PICCS, AICS, DSL

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapor

Abbreviations Full Texts

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP As low as is reasonably practicable
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulations
COSHH Control of Substances Hazardous to Health
EC Number European Community Number
EC50 Effective Concentration 50%
EILINCS European List of Notified Chemical Substances
EINECS European Inventory of Existing Commercial Chemical Substances
GHS Globally Harmonised System
HSE Health & Safety Executive UK
IATA International Air Transport Association
IM Intramuscular
IMDG The International Maritime Dangerous Goods Code
IP Intraperitoneal
IV Intravascular
LD50 Lethal Dose 50%
LOEC Lowest Observable Effective Concentration
LTEL Long Term Exposure Limit
NOEC No Observable Effective Concentration
OECD Organisation for Economic Cooperations and Development
PBT Persistent Bioaccumulative Toxic
PPE Personal Protective Equipment
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC Subcutaneous
SDS Safety Data Sheet
STEL Short Term Exposure Limit
STOT Specific Target Organ Toxicity
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative
WEL Workplace Exposure Limits

Training advice:
Training on chemical hazard awareness, including labeling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE), and hygiene

Further information

The above information is believed to be correct but does not purport to be exhaustive and should be used only as a guide. The information in this document is based on our current knowledge and is applicable to the product only with regard to appropriate safety precautions. It does not constitute a guarantee of the product's properties.

Disclaimer: Indagoo Research Chemicals shall not be held liable for any damage resulting from handling or contact with the above product. The information provided is believed to be accurate but is not intended to be all-inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

This Safety Data Sheet has been prepared in accordance with Commission Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878.