

SAFETY DATA SHEET

N-BUTYL CHLORIDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	109-69-3
EC number:	203-696-6
1.2 SYNONYMS:	<ul style="list-style-type: none">• 1-chlorobutane• Butyl chloride

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids, (Category 2) Aspiration hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements:	P261: Avoid breathing dust. P264: Wash skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment. P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately

	<p>all contaminated clothing. Rinse skin with water/shower.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.</p> <p>P404: Store in a closed container.</p> <p>P501: Dispose of contents/ container to an approved waste disposal plant.</p>
2.3 Other hazards:	
Inhalation:	may cause dizziness, headache, nausea, and irritation of the respiratory tract, and high concentrations can lead to central nervous system depression.
Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, abdominal pain, and central nervous system effects such as dizziness or drowsiness.
Skin Contact:	may cause irritation, redness, dryness, and defatting of the skin, and prolonged or repeated exposure can lead to dermatitis.
Eye contact:	may cause irritation, redness, tearing, and a burning sensation.
Chronic Exposure:	may lead to persistent skin irritation or dermatitis and prolonged central nervous system effects such as headaches, fatigue, or dizziness.
Aggravation of pre-existing conditions:	Aggravation of pre-existing conditions may occur in individuals with existing skin, eye, or respiratory disorders, and in those with neurological conditions due to repeated exposure.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 109-69-3 N-BUTYL CHLORIDE
Identification number(s):	EC number: 203-696-6

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects include acute eye, skin, and respiratory irritation with dizziness or nausea, and delayed effects such as dermatitis and prolonged central nervous system symptoms after repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, Carbon dioxide dry chemical, Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, hydrogen chloride.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material
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	Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Liquid
Colour:	Colorless
Odour:	Mild, sweet, hydrocarbon-like
pH-value:	No data available
Melting point/Melting range:	-123°C
Boiling point/Boiling range:	79°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	240°C
Decomposition temperature:	No data available
Self-igniting:	None
Flash point:	-7°C
Danger of explosion:	Yes
Explosion limits: Lower:	1.5%
Explosion limits: Upper:	9.8%
Vapour pressure:	100 hPa 20°C
Density at 20 °C:	0.89 g/cm ³
Relative density:	0.89
Vapour density:	3.2
Evaporation rate:	No data available
Solubility in / Miscibility with- -water at 20 °C:	Slightly Soluble
Partition coefficient:(n- octanol/water)	2.3
Viscosity:	0.7 mPa·s at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.

10.3 Possibility of hazardous reactions	Reacts violently with strong oxidizing agents and can undergo halide substitution or elimination reactions
10.4 Conditions to avoid	Heat, open flames, sparks, moisture.
10.5 Incompatible materials	Strong oxidizing agents, strong bases, alkali metals, strong reducing agents.
10.6 Hazardous decomposition products	Carbon oxides, hydrogen chloride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): no data available LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	May be fatal if swallowed and enters airways.
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
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12.2 Persistence and degradability:	Readily biodegradable
12.3 Bioaccumulative potential:	Moderate bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, mild detergents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1127
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	1-CHLOROBUTANE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as flammable and environmental hazard.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all

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