

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Chloroacetaldehyde solution

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to European Directive 67/548/EEC as amended.
Very toxic by inhalation. Toxic in contact with skin and if swallowed. Causes severe burns. Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms.

Label elements

Hazard symbol(s)	
T+	Very toxic
N	Dangerous for the environment
R-phrases(s)	
R24/25	Toxic in contact with skin and if swallowed.
R26	Very toxic by inhalation.
R35	Causes severe burns.
R40	Limited evidence of a carcinogenic effect.
R50	Very toxic to aquatic organisms.
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.		Classification	Concentration
Chloroacetaldehyde 107-20-0	203-472-8	-	Carc. 2; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Aquatic Acute 1; H301, H311, H314, H330, H351, H400 T+, N, Carc.Cat.3, R24/25 - R26 - R34 - R40 - R50	>= 45 - <= 55 %
Water 7732-18-5	231-791-2	-	-	>= 45 - <= 55 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Normal measures for preventive fire protection.

Conditions for safe storage

Store in cool place. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
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Safety data

pH	12 at 10 g/l at 20 °C
Melting point	-28 - -23 °C
Boiling point	80 - 100 °C at 1.013,25 hPa
Flash point	62 °C - closed cup
Ignition temperature	> 620 °C
Lower explosion limit	39 %(V)
Upper explosion limit	90 %(V)
Vapour pressure	2,459,7976 hPa at 20 °C
Water solubility	no data available
Partition coefficient: n-octanol/water	POW: 62 at 25 °C

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

Oxidizing agents, Bases

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 89 mg/kg

LD50 Oral - mouse - 82 mg/kg

LC50 Inhalation - rat - 650 mg/l

Remarks: Lungs, Thorax, or Respiration:Respiratory obstruction. Lungs, Thorax, or Respiration:Other changes. Vascular:BP elevation not characterized in autonomic section.

LD50 Dermal - rabbit - 267 mg/kg

LD50 Intraperitoneal - rat - 7 mg/kg

LD50 Intraperitoneal - mouse - 7 mg/kg

LD50 Intraperitoneal - guinea pig - 2,523 mg/kg

LD50 Intraperitoneal - rabbit - 5,522 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

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.

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

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi,

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath,

headache, nausea, and vomiting.

Additional Information

RTECS: AB2450000

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 2232 Class: 6.1 Packing group: I

Proper shipping name: 2-CHLOROETHANAL

IMDG

UN-Number: 2232 Class: 6.1 Packing group: I EMS-No: F-A, S-A

Proper shipping name: 2-CHLOROETHANAL

Marine pollutant: No

IATA

UN-Number: 2232 Class: 6.1

Proper shipping name: 2-Chloroethanal

IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrases(s) mentioned in Section 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
Skin Corr.	Skin corrosion
N	Dangerous for the environment
R24/25	Toxic in contact with skin and if swallowed.
R26	Very toxic by inhalation.
R34	Causes burns.
T+	Very toxic
R40	Limited evidence of a carcinogenic effect.
R50	Very toxic to aquatic organisms.

Further information

For R&D use only. Not for drug, household or other uses.



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WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.