

MATERIAL SAFETY DATA SHEET

Version:01

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CAS Number: 79-11-8 PRODUCT NAME: CHLOROACETIC ACID

1. IDENTIFICATION:

Product Code : 90364, 98373

Company Name ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Acute toxicity, Oral : Category 4

Acute toxicity, Dermal : Category 4

Acute toxicity, Inhalation : Category 2

Skin corrosion : Category 2

Serious eye damage : Category 1

Specific target organ

toxicity - single exposure,

Short-term (acute) aquatic

hazard

Hazard symbol

Labels elements

Signal word

Hazard statement Toxic if swallowed or in contact with skin or if inhaled.

Category 2

Category 1

Causes severe skin burns and eye damage.

May cause respiratory irritation. Very toxic to aquatic life.

Precautionary statement

Prevention : Obtain special instructions before use.

: Danger

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.



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Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

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shower

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not : result in GHS classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher. Rapidly absorbed through skin.

COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient **CAS Number** Percent **Hazardous** Chloroacetic Acid 79-11-8 NLT 99.0% Yes

FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

: vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important symptoms/effects, acute

and delayed Indication of immediate

medical attention and special treatment needed Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory

system and skin.

: Symptoms may be delayed. Treat symptomatically.

FIRE FIGHTING MEASURES:

General information : No data available.



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Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

Carbon oxides Hydrogen chloride gas Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of

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hazardous combustion gases or vapors possible in the event of fire.

Special protective equipment and precautions for firefighters

Special firefighting

procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective

equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use only non-sparking tools. Wear protective

gloves/protective clothing/eye

protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any

including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

General information

Hygiene measures

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

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ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

Eye/face protection . Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Colourless, deliquescent crystals.

Odor : No data available.

Solubility : 1.000 g/l at 20 °C Miscible

Molecular Weight : 94.5 g/mol

Specific Gravity : 1.64 g/cm3 at 20°C

pH : <1,0 at 800 g/l at 20 °C

% Volatiles by volume @

21C (70F)

No data available.

Boiling Point : 189°C **Melting Point** : 60 - 63°C

Flash Point : 126 °C

Vapor Density (Air=1) : No data available. Vapor Pressure (mm Hg) : 0,0213 hPa at 20 °C



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Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below

the flash point is to be rated as critical. The following applies in general to flammable

organic substances and mixtures: in correspondingly fine distribution, when whirled up a

dust explosion potential may generally be assumed.

Chemical stability : Material is stable under ambient conditions..

Generates dangerous gases or fumes in contact with: sodium carbonate calcium carbonate

Possibility of hazardous

Potassium carbonate Sulfides Metals Exothermic reaction with: Amines bases Reducing

agents Strong oxidizing agents Sulfides hydrogen peroxide Risk of explosion with: furfuryl

alcohol hydrogen peroxide.

Conditions to avoid : Heat, sparks, flames. Sunlight.

Incompatible materials

Strong oxidizing agents. Acetaldehyde. Acids. Chlorine. Ethylene Oxide

Hydrogen peroxide (H2O2) Sulfuric acid. Isocyanates. Aluminum.

Hazardous decomposition

products

Reactivity

reactions

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation May cause irritation to the mucous membranes and upper respiratory tract. May cause

central nervous system effects

Skin contact : Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - female – 90.4 mg/kg.

Dermal Product : LD 50 Rat - female - 305 mg/kg

Inhalation Product . LD 50 Rat - male and female - 4 h - > 1,268 mg/l.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

irritation Product

Irritating to eyes.

Respiratory or skin sensitization Product

: Not a skin sensitizer.



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Carcinogenicity Product : This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity No carcinogenic components identified.

No carcinogenic components identified.

: No carcinogenic components identified.

In vitro Product : No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

May cause respiratory irritation. - Respiratory Tract.

Specific target organ

toxicity - single exposure

Product

Specific target organ

toxicity - repeated

exposure Product

None known.

Aspiration hazard Product No data available.

Other effects No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Fish Product

Acute hazards to the aquatic environment

Aquatic invertebrates **Product**

: LC50 - Poecilia reticulata (guppy) - 369 mg/l

: EC50 - Daphnia magna (Water flea) - 74,2 mg/l

Chronic hazards to the aquatic environment

Fish Product No data available.

Aquatic invertebrates

No data available.

Product

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product

: 69 % - Readily biodegradable.

BOD/COD ratio Product

No data available.

Bioaccumulative potential



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Bioconcentration factor

(BCF) Product

: No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

Mobility in soil : No data available.

Other adverse effects

: No data available.

: No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

DOT	UN No. UN 1751	UN proper shipping name Chloroacetic Acid	Hazard Class(es) 6.1 (8)	Packaging group II	Marine Pollutant Yes
IMDG	UN 1751	Chloroacetic Acid	6.1 (8)	II	Yes
IATA	UN 1751	Chloroacetic Acid	6.1 (8)	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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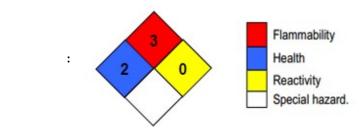
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 03/04/2023

Version : 01

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