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MATERIAL SAFETY DATA SHEET

CAS Number: 4170-24-5

Version:02

PRODUCT NAME: 2-CHLOROBUTYRIC ACID

1. IDENTIFICATION:

Product Code : 92891

Company Name ADVENT CHEMBIO PRIVATE LIMITED

W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, **Address**

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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Hazard symbol

Skin corrosion : Sub-category 1B

Labels elements

Signal word

Hazard statement Causes severe skin burns and eye damage.

Precautionary statement

Prevention : Obtain special instructions before use.

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.

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

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

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

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

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.



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result in GHS classification

Other hazards which do not : 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.

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COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient **CAS Number Percent Hazardous** 2-Chlorobutyric Acid 4170-24-5 NLT 97.0% 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

lungs.

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.

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

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and

special treatment needed

: The most important known symptoms and effects are described in the labelling.

: No data available.

FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance

to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

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.



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Special protective equipment for fire-fighters

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

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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

Notification Procedures

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

large amounts are involved.

spill for later recovery and disposal.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do

so. 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 explosion-proof electrical/ventilating/lighting/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 incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

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 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.

General information



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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. Chemical

Respirator with organic vapor cartridge.

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 : Clear, colourless to pale yellow liquid.

Odor : No data available.

Solubility : No data available.

Formula : $C_4H_7CIO_2$

Molecular Weight : 122.55 g/mol

Weight Per ML : 1.188 - 1.192 g at 20°C

pH : No data available.

% Volatiles by volume @

Hygiene measures

21C (70F)

: No data available.

Boiling Point : 90 - 92°C

Melting Point: No data available.Flash Point: No data available.Vapor Density (Air=1): No data available.Vapor Pressure (mm Hg): No data available.Evaporation Rate (BuAc=1): No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

reactions

: No data available.

Conditions to avoid : No data available.

Incompatible materials : No data available.



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Hazardous decomposition

products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation No data available.

Skin contact No data available.

Eye contact No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : No data available.

Dermal Product No data available.

Inhalation Product No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

No data available.

Serious eye damage/eye

irritation Product

No data available.

Respiratory or skin

sensitization Product **Carcinogenicity Product**

: Not a skin sensitizer.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

No carcinogenic components identified.

: No carcinogenic components identified.

: This substance has no evidence of carcinogenic properties

Carcinogens

US. OSHA Specifically

Regulated Substances (29 CFR 1910.1001-1050

Germ cell mutagenicity

: No carcinogenic components identified.

In vitro Product No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

: No data available.

Product



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Specific target organ

toxicity - repeated

: No data available.

exposure Product

Aspiration hazard Product

No data available.

Other effects No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates

Fish Product

No data available.

Product

Chronic hazards to the aquatic environment

Aquatic invertebrates

: No data available.

Product

No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product

No data available.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

No data available.

Product

Mobility in soil

No data available.

Other adverse effects

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:

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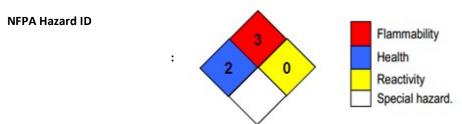
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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3265	2-Chlorobutyric Acid	8	II	No
IMDG	UN 3265	2-Chlorobutyric Acid	8	II	No
IATA	UN 3265	2-Chlorobutyric Acid	8	II	No

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.

16. OTHER INFORMATION:



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

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