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MATERIAL SAFETY DATA SHEET

Version:01

PRODUCT NAME: METHANE SULPHONYL CHLORIDE CAS Number: 124-63-0

1. IDENTIFICATION:

Product Code : 93617

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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

· NAVI MUMBAI - 400 701.

E-mail : sales@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Corrosive to Metals : Category 1

Health hazards

Acute toxicity, Oral : Category 3

Acute toxicity, Dermal : Category 4

Acute toxicity, Inhalation : Category 2

Skin corrosion : Sub-category 1B

Serious eye damage : Category 1

Skin sensitization : Category 1

Specific target organ

toxicity - Single exposure,

Onel

Oral

: Category 3

Labels elements :

Hazard symbol :

Signal word : Danger

Hazard statement May be corrosive to metals.

Toxic if swallowed.

Harmful in contact with skin.

: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Fatal if inhaled.

May cause respiratory irritation.



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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/

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.

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

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.

COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Methane Sulphonyl Chloride	124-63-0	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

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

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



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Indication of immediate medical attention and special treatment needed

: No data available.

5. FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: 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

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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

Fight fire from a protected location. Move containers from fire area if you can do so without

· ris

Special protective

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

equipment for fire-fighters

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. 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



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Conditions for safe storage, including any incompatibilities

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.

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. Recommended storage temperature 2 - 8 °C Moisture sensitive.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Eye/face protection

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

General information 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. 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

Hygiene measures 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 to colourless liquid.

Odor : Pungent

Solubility : No data available.

Formula : CH₃SO₂Cl

Molecular Weight : 114.55 g/mol

Weight Per ML : 1.428 - 1.528 g/cm3 at 25°C

pH : No data available.

% Volatiles by volume @

21C (70F)

No data available.



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Boiling Point : 60°C

Melting Point : -32°C

Flash Point : 102 °C

Vapor Density (Air=1) : 3.9

Vapor Pressure (mm Hg) : 12 hPa at 53 °C 3 hPa at 24,44 °C - Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

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.

Chemical stability: Material is stable under ambient conditions.

Possibility of hazardous

Violent reactions possible with: Strong bases Strong oxidizing agents Alcohols.

Conditions to avoid Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can

generate flammable and/or explosive hydrogen gas. Strong heating.

Incompatible materials : No data available.

Hazardous decomposition

: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation : May cause respiratory irritation. - Respiratory system

Skin contact : Corrosive.

Eye contact : Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - 175 mg/kg

Dermal Product : LD 50 Rabbit - > 200 - 2.000 mg/kg

Inhalation Product . LC 50 Rat - male and female - 1 h - 0,82 - 1,17 mg/l - vapor

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

: Corrosive.

Serious eye damage/eye

irritation Product

: Causes serious eye damage.



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Respiratory or skin

: Skin sensitizer.

sensitization Product
Carcinogenicity Product

: This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

: No carcinogenic components identified.

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No carcinogenic components identified.

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

: May cause respiratory irritation. - Respiratory system

Product

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

: LC50 - Lepomis macrochirus (Bluegill sunfish) - 11 mg/l - 96 h

Aquatic invertebrates

: EC50 - Daphnia magna (Water flea) - 34 mg/l - 48 h

Product
Toxicity to algae

: ErC50 - Pseudokirchneriella subcapitata (green algae) - 32 mg/l - 72 h

Toxicity to bacteria

EC10 - activated sludge - > 1.000 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.



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PRODUCT NAME: METHANE SULPHONYL CHLORIDE CAS Number: 124-63-0

Persistence and degradability

Biodegradation Product : Readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

Mobility in soil

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

: The product is partly soluble in water. May spread in the aquatic environment.

Other adverse effects The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment. Discharge into the environment must be avoided.

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:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3246	Methane Sulphonyl Chloride	6.1 (8)	ı	No
IMDG	UN 3246	Methane Sulphonyl Chloride	6.1 (8)	1	No
IATA	UN 3246	Methane Sulphonyl Chloride	6.1 (8)	-	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:

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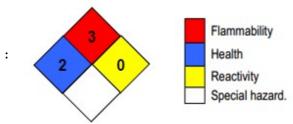
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NFPA Hazard ID



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

Issue Date : 09/09/2023

Version : 01

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