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Material Safety Data Sheet

Version 5.0 Revision Date 10/05/2012 Print Date 11/07/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Triphosgene

Product Number 330752 Brand Aldrich

Sigma-Aldrich Supplier

3050 Spruce Street

SAINT LOUIS MO 63103 USA

Telephone

: +1 800-325-5832 +1 800-325-5052

Emergency Phone # (For (314) 776-6555

both supplier and

manufacturer) Preparation Information

Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Highly toxic by inhafation, Corrosive

GHS Classification

Acute toxicity, Oral (Category 5) Acute toxicity, Inhalation (Category 1) Acute toxicity, Dermai (Category 5) Skin corrosion (Category 1B)

Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H303 + H313 May be harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

Fatal if inhaled. H330

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Wear respiratory protection. P284

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

HMIS Classification

Health hazard: Flammability: 0 Physical hazards: n

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NFPA Rating

Health hazard: 4 0 Reactivity Hazard: n

Potential Health Effects

Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Skin May be harmful if absorbed through skin, Causes skin burns, Eves Causes eve ourns.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: Bis(trichloromethyl) carbonate

Formula : C₃Cl₆O₃ Molecular Weight : 296.75 g/mol

Component		Concentration
Bis(trichloromethyl) c	arbonate	
CAS-No.	32315-10-9	-
EC-No.	250-986-3	İ
1		

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

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Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for discosal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

Moisture sensitive. Heat sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

Eye protection

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

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hyglene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

solid

Colour

beige

Salety data

Hq

no data available

Meltina

Melting point/range: 79 - 83 ℃ (174 - 181 ℉) - Iit.

point/freezing point

203 - 206 °C (397 - 403 °F) - lit.

Bailing point Flash point

no data available

Ignition temperature

no data available

Autoignition

no data available

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temperature

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure

no data available

Density

no data available

Water solubility

no data available

Partition coefficient: n-octanol/water

no data available

Relative vapour

no data available

density

Odour

no data available

Odour Threshold no data available

Evacoration rate

no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Avoid moisture. Heat.

Materials to avoid

Strong oxidizing agents, acids, Strong bases, Amines

Hazardous decomposition products

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

Other decomposition products - Phosoene

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50 Oraf - rat - > 2,000 mg/kg

Inhalation LC50

no data available

Dermal LD50

LD50 Dermal - rat - > 2,000 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

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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.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Giobally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Indestion May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes eve burns.

Signs and Symptoms of Exposure

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Synergistic effects

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bloaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

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13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2928 Class: 6.1 (8)

Packing group: II

Proper shipping name: Toxic solids, corrosive, organic, n.o.s. (Bis(trichloromethyl) carbonate)

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number; 2928 Class; 6.1 (8)

Packing group: II

EMS-No: F-A, S-B

Proper shipping name: TOXIC SÓLID, CORROSIVE, ORGANIC, N.O.S. (Bis(trichtoromethyl) carbonate)

Marine pollutant: No

IATA

UN number: 2928 Class: 6.1 (8)

Packing group; II

Proper shipping name: Toxic solid, corrosive, organic, n.o.s. (Bis(trichloromethyl) carbonate)

15. REGULATORY INFORMATION

OSHA Hazards

Highly toxic by inhalation, Corrosive

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No.

Revision Date

Bis(trichloromethyl) carbonate **New Jersey Right To Know Components** 32315-10-9

Bis(trichloromethyl) carbonate

32315-10-9

Revision Date

CAS-No.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

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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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.