

1. IDENTIFICATION

Product Name: Trityl chloride
Synonyms: Triphenylmethylchloride, Triphenyl chloromethane.1,1',1''-(chloromethylidyne)tris-Benzene.
Chemical Formula: C₁₉H₁₅Cl
CAS Number: 76-83-5
EC Number: 200-986-4

Relevant identified uses of the substance or mixture and uses advised against:

Identified use(s): Chemical manufacture, food, Pesticide or biocidal product use
Uses advised against: No uses advised against have been identified.
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification : This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Skin Corrosion/Irritation Category Category 1 B
Serious Eye Damage/Eye Irritation Category 1
Specific target organ toxicity (single exposure) Category 3
Target Organs Respiratory system.

Label elements:

Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage, May cause respiratory irritation.



Precautionary statements:

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor

Inhalation

Remove person to fresh air and keep comfortable for breathing

Skin

Take off immediately all contaminated clothing. Rinse skin with water or shower, Take off contaminated clothing and wash before reuse

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion	Rinse mouth. DO NOT induce vomiting
Storage	Store locked up Store in a well-ventilated place. Keep container tightly closed
Disposal	Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	Very toxic to aquatic life with long lasting effects
Hazards classified under paragraph (d)(1)(ii) of 1910.1200	No information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	
Main Constituent:	1,1',1''-(chloromethylidene)tris-Benzene.
Formula:	C ₁₉ H ₁₅ Cl
CAS No.:	76-83-5
EC No.:	200-986-4
Purity	NLT 95.0%

4. FIRST AID MEASURES

Description of first aid measures:

General Advice:	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion:	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
Most important symptoms and effects, both acute and delayed:	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or oesophagus should be investigated: ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media:	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable extinguishing media:	No information available.
Flash Point	No information available
Method -	No information available
Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous Combustion Products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Chlorine. Hydrogen chloride gas
Protective Equipment and Precautions for Fire-fighters.	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA:

Health
3

Flammability
1

Instability
0

Physical hazards
N/A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Storage

Air sensitive. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Water. Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limit established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Recommended Filter type	Particulates filter conforming to EN 143
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Powder Solid
Colour:	Beige
Odour:	Acrid
Odour threshold:	No information available
pH:	No information available
Melting point:	110 - 113 °C / 230 - 235.4 °F
Boiling point:	230 - 235 °C / 446 - 455 °F @ 20 mmHg
Flash point:	No information available
Flammability (liquid)	Not applicable
Flammability (solid, gas)	No information available
Explosion Limits	No data available
Auto ignition Temperature	Not applicable
Decomposition Temperature	No data available
Viscosity	Not applicable
Water Solubility	Decomposes in contact with water
Partition Coefficient (n-Octanol /water)	
Vapour Pressure	No data available
Density / Specific Gravity	No data available
Bulk Density	No data available
Vapour Density	Not applicable
Particle characteristics	No data available

10. STABILITY AND REACTIVITY

Reactivity hazard	None known, based on information available
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Chemical stability:	Moisture sensitive
Conditions to avoid:	Incompatible products. Exposure to moist air or water
Incompatible Materials	Water, Strong oxidizing agents, Strong bases
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Chlorine, Hydrogen chloride gas
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Information on expected route of exposure

Inhalation	Avoid breathing dust or spray mist. May be harmful if inhaled
Ingestion	May be harmful if swallowed.
Eyes:	Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness.
Skin	Avoid contact with skin. Causes burns. Skin Corrosion/Irritation.

Toxicology data for the components

Toxicologically Synergistic Products	No information available
skin corrosion/irritation;	Category 1 B Based on available data, the classification criteria are not met
serious eye damage/irritation	Category 1 Based on available data, the classification criteria are not met
Respiratory or skin sensitization;	
Respiratory	Based on available data, the classification criteria are not met
Skin	Based on available data, the classification criteria are not met
germ cell mutagenicity	Based on available data, the classification criteria are not met
carcinogenicity	Based on available data, the classification criteria are not met

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene,1,1',1''-(chloromethylidyne)tris	76-83-5	Not listed	Not listed	Not listed	Not listed	Not listed

reproductive toxicity;	Based on available data, the classification criteria are not met
STOT-single exposure;	Category 3
Results / Target organs	Based on available data, the classification criteria are not met
STOT-repeated exposure;	Respiratory system.
Target Organs	Based on available data, the classification criteria are not met
aspiration hazard;	None known.
Other Adverse Effects	Not applicable
Symptoms / effects,both acute and delayed	Solid
Other Adverse Effects	The toxicological properties have not been fully investigated
Endocrine Disrupting Properties	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
	The toxicological properties have not been fully investigated
	This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

EcoToxicity:	The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Reacts with water so no ecotoxicity data for the substance is available.
Persistence and degradability:	Persistence is unlikely based on information available
Bioaccumulation/ Accumulation	No information available
Mobility	Is not likely mobile in the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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14. TRANSPORT INFORMATION

<u>DOT</u>	
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name	Benzene, 1,1',1''-(chloromethylidyne) tris-
Hazard Class	8
Packing Group	II

<u>-TDG</u>	
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name	Benzene, 1,1',1''-(chloromethylidyne) tris-
Hazard Class	8
Packing Group	II

<u>IATA</u>	
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name	Benzene, 1,1',1''-(chloromethylidyne) tris-
Hazard Class	8
Packing Group	II

<u>IMDG/IMO</u>	
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Technical Shipping Name	Benzene, 1,1',1''-(chloromethylidyne) tris-
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzene,1,1',1''-(chloromethylidyne)tris-	76-83-5	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzene,1,1',1''-(chloromethylidyne)tris-	76-83-5	X	-	200-986-4	X	X	X	X	-	KE-05735

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

DOT Severe Marine Pollutant

N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances	REACH (1907/2006) - Annex XVII - Restrictions	REACH Regulation (EC 1907/2006) article 59 -
Benzene,1,1',1''-(chloromethylidyne)tris-	76-83-5			

		Subject to Authorization	on Certain Dangerous Substances	Candidate List of Substances of Very High Concern (SVHC)
Benzene,1,1',1''-(chloromethylidene)tris-	76-83-5	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzene,1,1',1''-(chloromethylidene)tris-	76-83-5	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzene,1,1',1''-(chloromethylidene)tris-	76-83-5	Not applicable	Not applicable	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared by:

SPV CHEM PVT LTD.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SDS