

GPS Safety Summary 1,2,3-Trichlorobenzene

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1. General Statements

1,2,3-Trichlorobenzene is crystalline, white solid. It is in aromatic odour . Combustible substance, poorly flammable. Partially insoluble in water. Heavier than water. Not volatile. The substance is hazardous to the aquatic environment.

2. Chemical identification.

Name :1,2,3-Trichlorobenzene

CAS number(s) :87-61-6
EC number :201-757-1
Molecular formula :C6H3Cl3

Structure :

3. Uses and Benefits

Commercial grade (mixture of the isomers) is used as a termiticide.Ot is also used as anIntermediate.

4. Physical / chemical properties

Property	Value	
Physical state :	Solid	
Colour :	Colourless-white	
Odour :	Pleasant odour Aromatic odour	
pH:	7	
Melting point :	53.5 °C	
Boiling point :	218 °C	
Flash point :	113 °C	
Density:	1,69 g/cm³ at 20°C	
Solubility in Water:	Insoluble in water.	

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5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal)	Harmful if swallowed
Irritation / corrosion Skin / eye/ respiratory tract	NA
Respiratory or skin sensitisation	May cause an allergic skin reaction
Toxicity after repeated exposure Oral / inhalation / dermal	NA
Genotoxicity / Mutagenicity	NA
Carcinogenicity	NA
Toxicity for reproduction	NA

6. Environmental Effects

Effect Assessment	Result
Aquatic toxicity	No
Fate and behavior	Result
Persistence and degradability	Not readily biodegradable in water.
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

7. Exposure

Human health

1,2,3-Trichlorobenzene is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects and may cause an allergic skin reaction. But the exposure must be kept as minimum as possible by the use of appropriate risk management measures suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers. Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals. Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

Environment

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

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8. Risk Management Recommendations

Human health measures

Organizational	A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet.			
Protection	Eye protection:	Face shield (EN 166). In case of dust production: protective goggles (EN 166)		
	Skin and body protection:	Protective clothing (EN 14605 or EN 13034). In case of dust production: head/neck protection. In case of dust production: dustproof clothing (EN 13982)		
	Respiratory protection:	Dust production: dust mask with filter type P2. On heating: Combined gas/dust mask with filter type A/P2		
Engineering controls	Ensure good ventilation of the work station.			
Environment protective measures				
Avoid release to the environment				

9. First-aid measures

First-aid measures after inhalation:Remove victims into fresh air. In case of respiratory problems, consult a doctor/medical service.Doctor: administration of corticoid spray.

First-aid measures after skin contact: If possible, wipe up/dry remove chemicals. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

First-aid measures after eye contact:Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do.Continue rinsing. If irritation persists, consult a doctor/medical service.

First-aid measures after ingestion :Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult the Poison Center.

10. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.

Unsuitable extinguishing media: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

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Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire:On heating/burning: release of toxic and corrosive gases/vapours (phosgene, hydrogen chloride, carbon monoxide - carbon dioxide).

Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions: Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

11. Accidental release measures

Protective equipment: Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Dust cloud production: self-contained breathing apparatus (EN 136 + EN 137). Dust cloud production: dust-tight suit (EN 13982).

Environmental precautions: Prevent soil and water pollution. Prevent spreading in sewers.

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust clouds with water spray. Powdered form: no compressed air for pumping over spills.

12. Disposal consideration

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations: Disposal must be done according to official regulations.

13. Handling and storage

Precautions for safe handling: Avoid raising dust. Keep away from naked flames/heat. In a finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Keep the container tightly closed. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over.

Hygiene measures: Observe very strict hygiene - avoid contact.

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14. Classification and Labeling

Hazard pictograms (GHS US)

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Signal word (GHS US)

Hazard statements (GHS US)

Precautionary statements (GHS US)

: Warning

: H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace.

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

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P302+P352 - If on skin: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

15. Conclusion

1,2,3-Trichlorobenzene is crystalline,white solid. It is in aromatic odour . Combustible substance, poorly flammable. Partially insoluble in water. Heavier than water. Not volatile. The substance is hazardous to the aquatic environment. The substance can react dangerously with: alkali/alkaline earth metals, strong oxidizing agents. Care should be taken to avoid releases of these products to sewage , drainage systems and water bodies. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

16. Contact Information within company

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Manufacturer

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This GPS safety summary is intended to give general information about the health, safety and environment and not intended to provide in-depth details. To obtain the most accurate and current

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information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.