

SAFETY DATA SHEET

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) (OSHA HCS)

SECTION 1. IDENTIFICATION

Product name Product code	:	1,4-Dichlorobenzene D0687
Manufacturer or suppl	ier's details	
Company name of supp Address Telephone Telefax E-mail address	lier : : : :	TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. +1-800-4238616/+1-503-2831681 +1-888-5201075/+1-503-2831987 sales-US@TCIchemicals.com
9		a (8:00am - 5:00pm) PST +1-503-2867624

Transportation Emergencies: Chemtrec 24-Hour +1-800-4249300 (U.S.A.)/+1-703-5273887 (International)

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS label elements Hazard pictograms

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation
Eye irritation
Skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure

Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure Short-term (acute) aquatic hazard Category 1
Category 2
Category 2
Category 1B
Category 1 (Liver, Blood)
Category 1 (Liver, Respiratory system, Nervous system)
Category 2 (Kidney)
Category 1

Category 2 Category 2B



Signal Word : Hazard Statements :	Danger H315 + H320 Causes skin and eye irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H370 Causes damage to organs (Liver, Blood). H372 Causes damage to organs (Liver, Respiratory system, Nervous system) through prolonged or repeated exposure. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure. H400 Very toxic to aquatic life.
Precautionary Statements :	Prevention:
	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and
	understood. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
	P264 Wash skin 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.

P273 Avoid release to the environment.

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

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

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

P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Components

Chemical name	CAS RN	Concentration (% w/w)
1,4-Dichlorobenzene	106-46-7	>= 90 - <= 100
Actual concentration is withheld as a trade aparet		

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Remove person to fresh air and keep comfortable for breathing.Call a POISON CENTER or doctor/ physician.
In case of skin contact	:	Take off all contaminated clothing immediately.Wash off with plenty of water.Call a POISON CENTER or doctor/ physician.
In case of eye contact	:	Rinse with plenty of water. If easy to do, remove contact lens, if worn.Call a POISON CENTER or doctor/ physician.
If swallowed	:	Call a POISON CENTER or doctor/ physician.Rinse mouth.
Most important symptoms and effects, both acute and delayed	:	None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Specific hazards during fire fighting	:	Dry powder, Foam, Water spray, Carbon dioxide (CO2) No information available.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.
Special protective equipment for fire-fighters	:	Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	:	Wear suitable protective equipment. Keep people away from and up-
equipment and emergency proce-		wind of spill/leak.Entry to non-involved personnel should be controlled

ment and cleaning up	: Pick up and arrange disposal without creating dust.
dures Environmental precautions Methods and materials for contain-	around the leakage area by roping off, etc. Should not be released into the environment.

SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation	Prevent dispersion of dust. Ensure adequate ventilation. Handle product of provide appropriate exhaust ventilation at mad exhaust ventilation.	, ,
Advice on safe handling	Avoid contact with skin, eyes and clothing. We equipment. Wash hands and face thoroughly	
Conditions for safe storage	Keep container tightly closed. Store in a cool a locked up. Avoid exposure to light.	and shaded area. Store

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS RN	Value type (Form of ex- posure)	Control parameters / Permissible con- centration	Basis
1,4-Dichlorobenzene	106-46-7	TWA	10 ppm	ACGIH
		TWA	75 ppm 450 mg/m3	OSHA Z-1
		TWA	75 ppm 450 mg/m3	OSHA P0
		STEL	110 ppm 675 mg/m3	OSHA P0

Engineering measures

: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipmer	nt	
Respiratory protection	:	Dustproof gas mask, Self-contained breathing apparatus
Hand protection	:	Impervious gloves
Eye protection	:	Safety glasses, Safety goggles, Face-shield
Skin and body protection	:	Impervious protective clothing
*Use personal protective equipr and national regulations.	nent(PPE) approved under appropriate government standards and follow local

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold pH Melting point/freezing point Boiling point/boiling range Flash point Flammability (solid, gas) Upper explosion limit / Upper flam- mability limit Lower explosion limit / Lower flam- mability limit Vapor pressure Relative vapor density Relative density Solubility(ies) Water solubility Solubility in other solvents completely miscible		Solid form white No data available 0.18 ppm No data available 131 °F / 55 °C 343 °F / 173 °C No data available No data available 16 %(V) 6.2 %(V) 170 Pa (68 °F / 20 °C) 5.08 No data available 80 mg/l insoluble (77 °F / 25 °C) Acetone Ethanol
Water solubility Solubility in other solvents	:	

Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Molecular weight	: 147.00 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available Stable under normal conditions. None under normal processing. Exposure to light. Oxidizing agents, Reducing agents, Aluminum Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride gas
Hazardous decomposition products	: Carbon monoxide, Carbon dioxide (CO2), Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity				
Acute oral toxicity		:	LDLo (Humans): 857 mg/kg	
			TDLo (Humans): 300 mg/kg	
			LD50 (Rat): 500 mg/kg	
Skin corrosion/ Result	irritation	:	Skin irritation	
Serious eye daı Result	mage/eye irritation	:	Mild eye irritation	
Respiratory or s Assessment	skin sensitization	:	May cause sensitization by skin contact.	
Germ cell muta Germ cell mutag	genicity enicity - Assessment	:	Suspected of inducing heritable mutations in the germ mans.	cells of hu-
Carcinogenicity Carcinogenicity IARC		: arcino	Suspected human carcinogens	
OSHA NTP	OSHA's list of regulate	ed ca	uct present at levels greater than or equal to 0.1% is on arcinogens. be a human carcinogen	
	1,4-Dichlorobenzene		106-46-7	
STOT-single ex	kicity - Assessment	:	Presumed human reproductive toxicant	
Target Organs Assessment		:	Liver, Blood Causes damage to organs.	
STOT-repeated	exposure			
Target Organs Assessment		:	Liver, Respiratory system, Nervous system Causes damage to organs through prolonged or repea	ated exposure.
Target Organs Assessment		:	Kidney May cause damage to organs through prolonged or re sure.	peated expo-
Repeated dose Aspiration toxic		:	No information available. No information available.	

RTECS No.

: CZ4550000 (1,4-Dichlorobenzene)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 1.63 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 7.1 mg/l Exposure time: 72 h
Ecotoxicology Assessment		
Acute aquatic toxicity Chronic aquatic toxicity	:	Very toxic to aquatic life. This product has no known ecotoxicological effects.
Persistence and degradability		
Biodegradability	:	0% (by BOD), 0% (by HPLC)
Bioaccumulative potential		
Bioconcentration factor (BCF)	:	33 - 72 (conc. 2 ug/L)
Mobility in soil		
Distribution among environmental com- partments	:	Koc: 273
Other adverse effects		
Product:		
Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Sec- tion 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.
Contaminated packaging	 Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR UN/ID No. Proper shipping name Class Packing group	 UN 3077 Environmentally hazardous substance, solid, n.o.s. 9 III
IMDG-Code UN number Proper shipping name Class Packing group EmS Code Marine pollutant	: UN 3077 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. : 9 : III : F-A, S-F : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR	
UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Class	: 9
Packing group	: 111
ERG Code	: 171
Marine pollutant	: no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS RN	Component RQ	Calculated product RQ
		(lbs)	(lbs)
1,4-Dichlorobenzene	106-46-7	100	101
1,4-Dichlorobenzene	106-46-7	100	100 (D027)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards		
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		
		1,4- 10 Dichlorobenzene	06-46-7	>= 90 - <= 100 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

1,4-Dichlorobenzene 106-46-7 >= 90 - <= 100 % This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release

Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final V/OC's (40

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

1,4-Dichlorobenzene	106-46-7	>= 90 - <= 100 %
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: 1,4-Dichlorobenzene 106-46-7 >= 90 - <= 100 %

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307 1,4-Dichlorobenzene 106-46-7 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know	
1,4-Dichlorobenzene	106-46-7
Pennsylvania Right To Know	
1,4-Dichlorobenzene	106-46-7
Maine Chemicals of High Concern	

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including 1,4-Dichlorobenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances	
1,4-Dichlorobenzene	106-46-7
California Permissible Exposure Limits for Chemical Contaminants	
1,4-Dichlorobenzene	106-46-7
TSCA list	
No substances are subject to a Significant New Use Rule.	

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Revision Date

: 11/12/2024

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.