

SAFETY DATA SHEET

Revision Date 10-Feb-2015

Revision Number 1

1. Identification					
Product Name	a,a`-Dichloro-o-xylene				
Cat No. :	AC154140000; AC154140250; AC154141000				
Synonyms	1,2-Bis(chloromethyl)benzene				
Recommended Use	Laboratory chemicals.				
Uses advised against Details of the supplier of the safety	No Information available afety data sheet				
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887			

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/irritation Serious Eye Damage/Eye Irritation

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Causes severe skin burns and eye damage Fatal if inhaled



Precautionary Statements

Category 4 Category 2 Category 1 B Category 1

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wear protective gloves/protective clothing/eye protection/face protection Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN 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 in a well-ventilated place. Keep container tightly closed Store locked up 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

3. Composition / information on ingredients

Component		CAS-No	Weight %		
	Benzene, 1,2-bis(chloromethyl)-		>95		
Benzene, 1,2-bis(chloromethyl)-612-12-4>95					
	4.	First-aid measures			
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.				
Skin Contact		nediately with soap and plenty of water shoes. Immediate medical attention is re			
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.				
Ingestion	Do not induce vomiting. Call a physician immediately. Clean mouth with water.				
Most important symptoms/effects	Causes burns by all exposure routes. 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				
Notes to Physician	Treat symptomatically				
5. Fire-fighting measures					
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical. chemical foam. Do not use a solid water stream as it may scatter and spread fire.				
Unsuitable Extinguishing Media	No informatio	on available			

Flash Point Method -	107 °C / 224.6 °F No information available		
Autoignition Temperature Explosion Limits	Not applicable 450 °C / 84	42 °F	
Upper	No data available		
Lower Sensitivity to Mechanical Impa	No data available		
Sensitivity to Static Discharge			
Specific Hazards Arising from the Do not allow run-off from fire fighting		es.	
Hazardous Combustion Products Hydrogen chloride gas Carbon mono Protective Equipment and Precaut As in any fire, wear self-contained br protective gear.	ions for Firefighters		ed or equivalent) and full
NFPA	Flowmobility	Instability	Dhysical herorda
Health 4	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental rele	Pase measures	
Personal Precautions		. Use personal protective equ	ipment.
Environmental Precautions	Do not flush into surface wa contaminate ground water s	ter or sanitary sewer system.	Do not allow material to entering drains. Local authorities
Methods for Containment and Clea Up		ng apparatus and protective s le container for disposal. Do r	
	7. Handling a	nd storage	
Handling	Do not breathe dust. Do not area provided with appropria		thing. Do not ingest. Use only in
Storage	Keep in a dry, cool and well- area.	-ventilated place. Keep contain	ner tightly closed. Corrosives
8 F	xposure controls /	nersonal protection	n
Exposure Guidelines		in any hazardous materials wi	th occupational exposure limits
- .			
Engineering Measures		e to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection		eyeglasses or chemical safet ction regulations in 29 CFR 19	y goggles as described by 10.133 or European Standard
Skin and body protection	Wear appropriate protective		t alia anno anno
		gloves and clothing to preven	it skin exposure.

exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical	and chemical properties			
Physical State	Solid			
Appearance	Beige			
Odor	Odorless			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	53 - 57 °C / 127.4 - 134.6 °F			
Boiling Point/Range	239 - 241 °C / 462.2 - 465.8 °F @ 760 mmHg			
Flash Point	107 °C / 224.6 °F			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	0.07 hPa @ 20 °C			
Vapor Density	Not applicable			
Relative Density	No information available			
Solubility	No information available			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	Not applicable 450 °C / 842 °F			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	C8 H8 Cl2			
Molecular Weight	175.06			
10. Stability and reactivity				

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Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Incompatible products. Exposure to moisture.			
Incompatible Materials	Bases, Strong oxidizing agents, Alcohols, Amines, Metals			
Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene				
Hazardous Polymerization	No information available.			
Hazardous Reactions	May react with metals and lead to the formation of flammable hydrogen gas.			
11. Toxicological information				

Acute Toxicity

Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene, 1,2-bis(chloromethyl)-	2263 mg/kg (Rat) 603 mg/kg (Rat)	Not listed	250 mg/m³(Rat)4 h
Toxicologically Synergistic Products	No information available		•
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposu	ire
Irritation	No information available		

Sensitization

No information available

Carcinogenicity

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, 1,2-bis(chloromethyl)-	612-12-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	d Product is a corrosive material. Use of gastric lavage or emesis is contraindicated Possible perforation of stomach or esophagus should be investigated: Ingestion c severe swelling, severe damage to the delicate tissue and danger of perforation				estion causes
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.				

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Bioaccumulation/ Accumulation	Soluble in water Persistence is unlikely based on information available. No information available.	
Mobility	Will likely be mobile in the environment due to its water solubility.	
	13. Disposal considerations	
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a	

Waste Disposal 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.

14. Transport information				
DOT	Not regulated			
<u>TDG</u>	Not regulated			
IATA				
UN-No	2928			
Proper Shipping Name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.*			
Hazard Class	6.1			
Subsidiary Hazard Class	8			
Packing Group	I			
IMDG/IMO				
UN-No	2928			
Proper Shipping Name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.			
Hazard Class	6.1			
Subsidiary Hazard Class	8			
Packing Group	II			

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzene,	Х	-	Х	210-291-8	-		Х	Х	-	-	-
1,2-bis(chloromethyl)-											

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable

SARA 313	Not applicable
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SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act	Not applicable
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Clean Air Act	Not applicable
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OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals
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State Right-to-Know

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

- D1A Very toxic materials
- E Corrosive material



	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	10-Feb-2015 10-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS