

SAFETY DATA SHEET

Revision Date 23-Jan-2018

Revision Number 3

	1. Identification
Product Name	2,3-Dichloroaniline
Cat No. :	AC113090000; AC113090050; AC113091000; AC113095000
Synonyms	2,3-Dichlorobenzeneamine; 2,3-Dichloroaniline.; 1-Amino-2,3-dichlorobenzene
Recommended Use Uses advised against Details of the supplier of the saf	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

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	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Combustible dust	Yes
Combustible dust	Yes

Label Elements

Signal Word Danger

Hazard Statements

May form combustible dust concentrations in air Toxic if swallowed Toxic in contact with skin Causes skin irritation Causes serious eye irritation Toxic if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

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

3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Benzenamine, 2,3-dichlo	ro- 608-27-5	99	
	4. First-aid measures		
Eye Contact	Immediate medical attention is required. Rinse the eyelids, for at least 15 minutes.	e immediately with plenty of water, also under	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.		
Inhalation	Remove from exposure, lie down. Move to free respiration. Immediate medical attention is req	0,0	
Ingestion	Call a physician immediately. Clean mouth wit	h water.	
Most important symptoms and	No information available.		

effects Notes to Physician	Treat symptomatically
	5. Fire-fighting measu

	5. Fire-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.		
Unsuitable Extinguishing Media	No information available		
Flash Point	> 115 °C / > 239 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
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No data available Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture in air. Containers may explode when heated. Fine dust dispersed in air may ignite. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Hydrogen chloride gas Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2)

Protective Equipment and Precautions for Firefighters

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 re	lease measures	
Personal Precautions Environmental Precautions	Do not flush into surface w contaminate ground water	n. Use personal protective equ ater or sanitary sewer system. system. Prevent product from cant spillages cannot be contai	Do not allow material to entering drains. Local authorities

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

	7. Handling and storage
Handling	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation. Wash thoroughly after handling.
Storage	Keep in a dry place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces No smoking.
	8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Benzenamine, 2,3-dichloro-				TWA: 2 ppm
				TWA: 10 mg/m ³
				STEL: 5 ppm
				STEL: 20 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Brown
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	23 - 24 °C / 73.4 - 75.2 °F
Boiling Point/Range	250 - 252 °C / 482 - 485.6 °F @ 760 mmHg
Flash Point	> 115 °C / > 239 °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	1 hPa @ 78 °C
Vapor Density	Not applicable
Specific Gravity	1.370
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H5 Cl2 N
Molecular Weight	162.02
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Exposure to air. Exposure to light. Incompatible products.
Incompatible Materials	Acids, Acid anhydrides, Acid chlorides
Hazardous Decomposition Product	s Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component Informa	ation						
Componer	t	LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation				
Benzenamine, 2,3-	dichloro-	Not listed		Not listed		LC50 > 8047 mg/m ³ (Rat) 4 h	
Products							
Delayed and immed	iate effects as	well as chronic effe	cts from short an	d long-term expo	sure		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Benzenamine, 2,3-dichloro-	608-27-5	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	s	No information available.					
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated ex		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute an	No information available					

Endocrine Disruptor Information No in

Other Adverse Effects

No information available

The toxicological properties have not been fully investigated.

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.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzenamine, 2,3-dichloro-	Not listed	Not listed	EC50 = 2.51 mg/L 5 min EC50 = 2.75 mg/L 15 min EC50 = 2.75 mg/L 30 min	Not listed

Persistence and Degradability Persistence is unlikely

Bioaccumulation/Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Benzenamine, 2,3-dichloro-	2.8

Waste Disposal Methods

13. Disposal considerations

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	
UN-No	UN3442
Hazard Class	6.1
Packing Group	ll
TDG	
UN-No	UN3442
Hazard Class	6.1
Packing Group	ll
IATA	
UN-No	UN3442
Proper Shipping Name	DICHLOROANILINES, SOLID
Hazard Class	6.1
Packing Group	ll
IMDG/IMO	
UN-No	UN3442
Proper Shipping Name	DICHLOROANILINES, SOLID
Hazard Class	6.1
Packing Group	
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzenamine, 2,3-dichloro-	Х	-	Х	210-157-9	-		Х	Х	Х	Х	Х

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
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA	Not applicable			
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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security This product does not contain any DHS chemicals.				
Other International Regulations				
Mexico - Grade	No information available			
	16. Other information			
Prenared By	Regulatory Affairs			

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	23-Jan-2018 23-Jan-2018 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 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 a 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