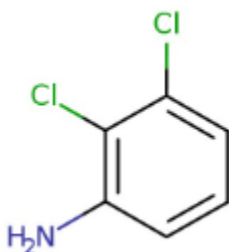


1. General Statement

2,3-Dichloroaniline is liquid or solid, depending on the room temperature. Products containing impurities can be liquid. Dark brown colour. combustible substance, poorly flammable. Very slightly soluble in water. Acute or chronic health hazards result from the substance. the substance is hazardous to the aquatic environment.

2. Chemical identification.

Name : 2,3-Dichloroaniline
 CAS number(s) : 608-27-5
 EC number : 210-157-9
 Molecular formula : C₆H₅Cl₂N
 Structure :



3. Uses and Benefits

It is used as a Chemical intermediate in the manufacture of pesticides, pharmaceuticals, dye-stuffs. Environmental pollutants particularly in seawater and waste water.

4. Physical / chemical properties

Property	Value
Physical state :	Solid
Colour :	Red
Odour :	Aromatic odour
pH :	No data available
Melting point :	23 °C
Boiling point :	252 °C
Flash point :	115 °C
Density :	1370 kg/m ³
Solubility in Water:	0.34 g/100ml

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2,3-Dichloroaniline

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5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal)	Harmful if swallowed,Toxic in contact with skin,Toxic if inhaled
Irritation / corrosion Skin / eye/ respiratory tract	Causes skin irritation,
Respiratory or skin sensitisation	NA
Toxicity after repeated exposure Oral / inhalation / dermal	May cause damage to organs through prolonged or repeated exposure
Genotoxicity / Mutagenicity	NA
Carcinogenicity	NA
Toxicity for reproduction	NA

6. Environmental Effects

Effect Assessment	Result
Aquatic toxicity	Yes
Fate and behavior	Result
Persistence and degradability	Not readily biodegradable in water.
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

7. Exposure

Human health

2,3-Dichloroaniline is Harmful if swallowed,Toxic in contact with skin,Toxic if inhaled.It Causes skin irritation,May cause damage to organs through prolonged or repeated exposureMethemoglobinemia. Feeling of weakness. Dizziness. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. Blue/grey discolouration of the skin.Irritation of the eye tissue. Inflammation/damage of the eye tissue.Symptoms similar to those listed under inhalation. Nausea. Abdominal pain.ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Change in the haemogramme/blood composition. Blue/grey discolouration of the skin.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

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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.

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)
	Skin and body protection:	Protective clothing (EN 14605 or EN 13034)
	Respiratory protection:	Full face mask with filter type A. High vapour/gas concentration: self-contained breathing apparatus (EN 136 + EN 137)
Engineering controls	Do not breathe dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. 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 the victim into fresh air.

First-aid measures after skin contact: Soap may be used. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing before washing.

First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice.

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First-aid measures after ingestion :Rinse mouth with water. Give nothing to drink. The victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote. Call Poison Information Centre (www.big.be/antigif.html).

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.

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 (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

Advice for firefighters

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

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting 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). Large spills/in enclosed spaces: self-contained breathing apparatus (EN 136 + EN 137). Large spills/in enclosed spaces: gas-tight suit (EN 943). Reactivity hazard: self-contained breathing apparatus (EN 136 + EN 137). Reactivity hazard: gas-tight suit (EN 943).

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 liquid spill. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water. Heat exposure: dilute toxic gas/vapour with water spray.

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.

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

13. Handling and storage

Precautions for safe handling: Keep away from naked flames/heat. In a finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep the container tightly closed.

Hygiene measures : Observe strict hygiene.

14. Classification and Labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H315 - Causes skin irritation
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor.
P302+P352 - If on skin: Wash with plenty of water.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P311 - Call a POISON CENTER, a doctor.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P322 - Specific treatment (see supplemental first aid instruction on this label)
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

15. Conclusion

2,3-Dichloroaniline is liquid or solid, depending on the room temperature. Products containing impurities can be liquid. Dark brown colour. Combustible substance, poorly flammable. Very slightly soluble in water. Acute or

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chronic health hazards result from the substance. the substance is hazardous to the aquatic environment. There is a risk of a dust explosion if the following conditions are met: The substance is given in a very finely distributed form (powder, dust). The substance is whirled up in sufficient quantity in the air. An ignition source is present (flame, spark, electrostatic discharge, etc.) 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

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