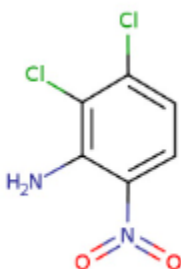


1. General Statements

2,3-Dichloro-Ortho-nitroaniline is a powder solid which is yellow in 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-Dichloro-Ortho-nitroaniline
CAS number(s) : 65078-77-5
EC number : 265-378-3
Molecular formula : C₆H₄Cl₂N₂O₂
Structure :



3. Uses and Benefits

This substance is used as laboratory reagent and for manufacturing of Organic syntheses.

4. Physical / chemical properties

Property	Value
Physical state :	Solid
Colour :	yellow
Odour :	Odourless
pH :	NDA
Melting point :	190 – 192 °C
Boiling point :	323.5±37.0 °C at 760 mmHg (Predicted)
Flash point :	149.4±26.5 °C (Predicted)
Density :	1.6±0.1 g/cm ³ (Predicted)
Solubility in Water:	0.0034 g/l

GPS Safety Summary

2,3-Dichloro-Ortho-nitroaniline

CL-4:PUBLIC

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	NA
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	Yes
Fate and behavior	Result
Persistence and degradability	Biodegradability in soil: no data available.
Bioaccumulative potential	No additional data available

7. Exposure

Human health

2,3-Dichloro-Ortho-nitroaniline is Harmful if swallowed. It is toxic to aquatic life with long lasting effects, is harmful if swallowed, is harmful in contact with skin, causes serious eye irritation, is harmful if inhaled, causes skin irritation and may cause respiratory irritation. 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.

GPS Safety Summary

2,3-Dichloro-Ortho-nitroaniline

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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:	Safety glasses
	Skin and body protection:	Wear suitable protective clothing
	Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Engineering Controls	Do not breathe dust. Provide adequate ventilation to minimize dust concentrations. Ensure good ventilation of the work station.	
Environment protective measures		
Avoid creating or spreading dust. Avoid release to the environment.		

9. First-aid measures

First-aid measures after inhalation: Remove the person to fresh air and keep them comfortable for breathing. Remove the victim into fresh air. Give oxygen or artificial respiration if necessary.

First-aid measures after skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash skin with plenty of water.

First-aid measures after eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse eyes with water as a precaution.

First-aid measures after ingestion : If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Call a poison center or a doctor if you feel unwell.

10. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, or water spray or regular foam. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream..

Special hazards arising from the substance or mixture

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

GPS Safety Summary

2,3-Dichloro-Ortho-nitroaniline

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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.

Fire fighting instructions: Fight fire from a safe distance and protected location. Do not enter a fire area without proper protective equipment, including respiratory protection.

11. Accidental release measures

Protective equipment : Wear recommended personal protective equipment.

Environmental precautions: Avoid release to the environment. Harmful to aquatic life with long lasting effects.

For containment : Stop leak without risks if possible. Collect spillage.

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: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Hygiene measures: Observe normal hygiene standards. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

GPS Safety Summary

2,3-Dichloro-Ortho-nitroaniline

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14. Classification and Labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: H302 - Harmful if swallowed

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US)

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

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

P273 - Avoid release to the environment.

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

P330 - Rinse mouth.

P391 - Collect spillage.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

15. Conclusion

2,3-Dichloro-Ortho-nitroaniline is a crystalline solid which is yellow in 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. It is Harmful if swallowed. It is toxic to aquatic life with long lasting effects, is harmful if swallowed, is harmful in contact with skin, causes serious eye irritation, is harmful if inhaled, causes skin irritation and may cause respiratory irritation. 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.