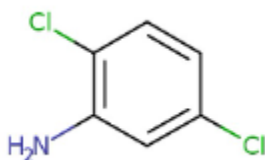


### 1. General Statements

2,5-Dichloroaniline is crystalline solid which is a characteristic odour. It is White to grey-brown in colour. Combustible substance, poorly flammable. Very slightly soluble in water. Sensitive to light. Acute or chronic health hazards result from the substance. The substance is hazardous to the aquatic environment.

### 2. Chemical identification.

Name : 2,5-Dichloroaniline  
CAS number(s) : 95-82-9  
EC number : 202-455-2  
Molecular formula : C<sub>6</sub>H<sub>5</sub>Cl<sub>2</sub>N  
Structure :



### 3. Uses and Benefits

It is used as a Chemical intermediate in the manufacture of dyestuffs. Environmental pollutants particularly in sea, river and ground water. Breakdown product of pentachloronitrobenzene (PCNB) in acclimated soil.

### 4. Physical / chemical properties

Property	Value
Physical state :	Solid
Colour :	Colourless or off-white On exposure to light: brown
Odour :	Aromatic odour
pH :	7.1 (0.08 %)
Melting point :	47°C
Boiling point :	251 °C (1013 hPa)
Flash point :	139 °C (1013 hPa)
Density :	1540 kg/m <sup>3</sup>
Solubility in Water:	0.056 g/100ml

# GPS Safety Summary

## 2,5-Dichloroaniline

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### 5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal )	Toxic if swallowed, in contact with skin or if inhaled
Irritation / corrosion Skin / eye/ respiratory tract	NA
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

2,5-Dichloroaniline Toxic if swallowedMay cause damage to organs through prolonged or repeated exposure.But 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.

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## 2,5-Dichloroaniline

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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:	Face shield (EN 166). In case of dust production: protective goggles (EN 166)
	Skin and body protection:	Protective clothing (EN 14605 or EN 13034). In case of dust production: head/neck protection. In case of dust production: dustproof clothing (EN 13982)
	Respiratory protection:	Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus (EN 136 + EN 137)
Engineering controls	Ensure good ventilation of the work station.	
Environment protective measures		
Avoid release to the environment		

### 9. First-aid measures

**First-aid measures after inhalation:**Call a POISON CENTER or doctor/physician. Assure fresh air breathing.

**First-aid measures after skin contact::**Wash immediately with PE-glycol 400. Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Remove clothing before washing. Consult a doctor/medical service.

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

**First-aid measures after ingestion :**Rinse mouth with water. The victim is fully conscious: immediately induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre ([www.big.be/antigif.html](http://www.big.be/antigif.html)). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

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## 2,5-Dichloroaniline

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### 10. Fire-fighting measures

#### **Extinguishing media**

**Suitable extinguishing media:** Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (not alcohol-resistant).

**Unsuitable extinguishing media :** Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

#### **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).

#### **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/corrosive precipitation water. 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). Dust cloud production: self-contained breathing apparatus (EN 136 + EN 137). Dust cloud production: dust-tight suit (EN 13982). 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 solid spill. Knock down/dilute dust clouds with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills.

### 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.

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## 2,5-Dichloroaniline

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### 13. Handling and storage

**Precautions for safe handling:** Avoid raising dust. Keep away from naked flames/heat. Take precautions against electrostatic charges. 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. Powdered form: no compressed air for pumping over. 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  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
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 gloves/protective clothing/eye protection/face protection.  
P301+P310 - If swallowed: Immediately call a poison center or 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 or doctor.  
  
P312 - Call a poison center or 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.  
P361+P364 - Take off immediately all 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

2,5-Dichloroaniline is crystalline solid which is a characteristic odour. It is White to grey-brown in colour. Combustible substance, poorly flammable. Very slightly soluble in water. Sensitive to light. Acute or chronic health hazards result from the substance. The substance is hazardous to the aquatic environment. There is a

## **GPS Safety Summary**

### **2,5-Dichloroaniline**

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risk of a dust explosion if the following conditions are met: The substance is given in 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.) 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**

Aarti Industries Limited

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400080 Mumbai - India

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info@aarti-industries.com - www.aarti-industries.com

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.