# GPS Safety Summary
## 2,6-Dichloroaniline

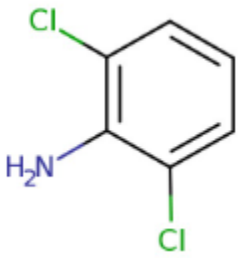
Reference number: AIL-GPS-067 Issue date: 08/04/2025 Version: 1.0 **CL-4: PUBLIC**

## 1. General Statement

2,6-Dichloroaniline is solid, characteristic odour.which is Combustible substance, poorly flammable.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 : 2,6-Dichloroaniline
CAS number(s) : 608-31-1
EC number : 210-160-5
Molecular formula : C6H5Cl2N
Structure :




## 3. Uses and Benefits

It is used as a Chemical intermediate in the manufacture of dyestuffs, herbicides and pharmaceuticals. Environmental pollutants particularly in sea, river and ground water.

## 4. Physical / chemical properties

| Property | Value |
|---|---|
| Physical state : | Solid |
| Colour : | Colourless |
| Odour : | characteristic odour |
| pH : | No data available |
| Melting point : | 36 – 38 °C |
| Boiling point : | 228 °C |
| Flash point : | 118 °C |
| Density : | 1.274 g/cm3 |
| Solubility in Water: | 1.6 g/l |

## 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** | 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** | No additional information available |

## 7. Exposure

**Human health**

2,6-Dichloroaniline is Harmful if swallowed,Toxic in contact with skin,Toxic if inhaled,May cause damage to organs through prolonged or repeated exposure. Symptoms of vasodilation and reflex tachycardia may present following organic nitrate overdose; most organic nitrates are extensively metabolised by hydrolysis to inorganic nitrites. Organic nitrates and nitrites are readily absorbed through the skin, lungs, mucosa and gastro-intestinal tract..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.

## 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: | Wear respiratory protection. |
| 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:**Remove the person to fresh air and keep them comfortable for breathing. Take medical advice.

**First-aid measures after skin contact:**Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing.

**First-aid measures after eye contact:**Rinse eyes with water as a precaution.

**First-aid measures after ingestion :**Rinse mouth. Call a physician immediately.

## 10. Fire-fighting measures

**Extinguishing media**
**Suitable extinguishing media:**Water spray. Dry powder. Foam.

**Unsuitable extinguishing media :**No information available.

**Special hazards arising from the substance or mixture**
**Hazardous decomposition products in case of fire:**Toxic fumes may be released.

**Advice for firefighters**
**Precautionary measures fire :**Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**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** :Use protective equipment while cleaning if necessary.Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.Use tested industrial vacuum cleaners or suction systems for areas with a high risk of explosion.Do not raise dust while cleaning.Use of a blower for cleaning is not permitted.

**Environmental precautions:** Avoid release to the environment.

**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.

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

## 13. Handling and storage

**Precautions for safe handling:**Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.Wear personal protective equipment. Use only outdoors or in a well-ventilated area.

**Hygiene measures :**Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

## 15. Conclusion

2,6-Dichloroaniline  is solid, characteristic odour.which is Combustible substance, poorly flammable.Slightly soluble in water.Acute or chronic health hazards result from the substance.The substance is hazardous to the aquatic environment.The substance can react dangerously with:oxidizing agents, acid chlorides, acid anhydride Reaction with nitrosating agents (e.g. nitrites, nitrous acid, nitrous gases) can release cancerogenic nitrosamines.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**
Aarti Industries Limited
Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (West)
400080 Mumbai - India
T +91-22-6797-6666 - F +91-22-2565 3234
info@aarti-industries.com - www.aarti-industries.com

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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.