

# **SAFETY DATA SHEET**

Revision Date 29-Mar-2024 Revision Number 3

# 1. Identification

Product Name 2,6-Dichloroaniline

Cat No. : L05103

**CAS No** 608-31-1

Synonyms 2,6-Dichloroaniline.; 2,6-Dichlorobenzeneamine; 1-Amino-2,6-dichlorobenzene

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **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

Acute Inhalation Toxicity - Dusts and Mists

Specific target organ toxicity - (repeated exposure)

Category 3

Category 2

Target Organs - Blood, Hematopoietic System.

Combustible dust Yes

### Label Elements

### Signal Word

Danger

### **Hazard Statements**

\_\_\_\_\_

May form combustible dust concentrations in air May cause damage to organs through prolonged or repeated exposure Toxic if swallowed, in contact with skin or 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

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

#### Response

Get medical attention/advice if you feel unwell

### 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

#### 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, 2,6-dichloro- | 608-31-1 | 98       |  |

# 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**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. Remove to fresh air. If not breathing, give artificial

respiration. Immediate medical attention is required.

**Ingestion** Call a physician immediately. Clean mouth with water.

Most important symptoms and

effects

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

No information available.

Unsuitable Extinguishing Media No information available

**Flash Point** 118 °C / 244.4 °F

Method - No information available

Autoignition Temperature 600 °C / 1112 °F

**Explosion Limits** 

Upper No data available
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 with 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**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride gas.

### **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 | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3      | 1            | 0           | N/A              |

### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. **Up** 

| 7. Handling and storage |
|-------------------------|
|-------------------------|

Handling Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle product only in

closed system or provide appropriate exhaust ventilation. Wash thoroughly after handling.

Storage. Keep in a dry place. Keep container tightly closed. Keep at temperature not exceeding .?°C.

Keep cool and protect from sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep only in the original container. Incompatible Materials. Acids.

Acid anhydrides. Acid chlorides.

### 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

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limitsestablished by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. **Engineering Measures** 

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

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.

Recommended Filter type: Particulates filter conforming to EN 143.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

**Physical State** Solid **Appearance** Beige Odor aromatic

**Odor Threshold** No information available рH No information available

35 - 39 °C / 95 - 102.2 °F Melting Point/Range 228 °C / 442.4 °F **Boiling Point/Range** 

Flash Point 118 °C / 244.4 °F **Evaporation Rate** Not applicable

No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available 0.02 mbar @ 20 °C **Vapor Pressure** Not applicable **Vapor Density** 

**Specific Gravity** No information available Solubility No information available

Partition coefficient; n-octanol/water No data available 600 °C / 1112 °F **Autoignition Temperature** 

390 °C **Decomposition Temperature Viscosity** Not applicable C6 H5 Cl2 N Molecular Formula

**Molecular Weight** 162.02

# 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 Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride

gas

**Hazardous Polymerization**No information available.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

Product Information
Component Information

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component     | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|---------------|----------|------------|------------|------------|------------|------------|
| Benzenamine,  | 608-31-1 | Not listed |
| 2.6-dichloro- |          |            |            |            |            |            |

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known

**STOT - repeated exposure**Blood Hematopoietic System

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects 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, 2,6-dichloro- | Not listed       | Not listed      | EC50 = 1.48 mg/L 5 min<br>EC50 = 1.70 mg/L 15 min<br>EC50 = 1.74 mg/L 30 min | Not listed |

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation**No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

# 13. Disposal considerations

#### **Waste Disposal Methods**

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 II

TDG

UN-No UN3442
Hazard Class 6.1
Packing Group II

<u>IATA</u>

UN-No UN3442

Proper Shipping Name DICHLOROANILINES, SOLID

Hazard Class 6.1 Packing Group II

IMDG/IMO

UN-No UN3442

Proper Shipping Name DICHLOROANILINES, SOLID

Hazard Class 6.1 Packing Group

# 15. Regulatory information

### **United States of America Inventory**

| Component                  | CAS No   | TSCA | TSCA Inventory notification - | TSCA - EPA Regulatory |
|----------------------------|----------|------|-------------------------------|-----------------------|
|                            |          |      | Active-Inactive               | Flags                 |
| Benzenamine, 2,6-dichloro- | 608-31-1 | X    | ACTIVE                        | -                     |

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                  | CAS No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|----------------------------|----------|-----|------|-----------|-------|------|------|------|-------|------|
| Benzenamine, 2,6-dichloro- | 608-31-1 | -   | Х    | 210-160-5 | Χ     | Χ    | Х    | Χ    | Χ     | -    |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**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): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

#### Authorisation/Restrictions according to EU REACH

| Component                  | CAS No   | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization |   | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|----------------------------|----------|---|---|---|
| Benzenamine, 2,6-dichloro- | 608-31-1 | -   | Use restricted. See item 75. (see link for restriction details) | -   |

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

### Safety, health and environmental regulations/legislation specific for the substance or mixture

|    | Component                | CAS No   | OECD HPV       | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|----|--------------------------|----------|----------------|---------------------------------|------------------------------|--|
| Ве | nzenamine, 2,6-dichloro- | 608-31-1 | Not applicable | Not applicable                  | Not applicable               | Not applicable                                   |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

| Component                  | CAS No   | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident | for Safety Report | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |
|----------------------------|----------|---|-------------------|-------------------------------|---------------------------------------|
|                            |          | Notification  | Requirements      |                               |                                       |
| Benzenamine, 2,6-dichloro- | 608-31-1 | Not applicable  | Not applicable    | Not applicable                | Not applicable                        |

16. Other information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

Revision Date 29-Mar-2024 Print Date 29-Mar-2024

**Revision Summary** New emergency telephone response service provider.

### **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**