

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

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# SECTION 1:Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : 2,4-Dichloroaniline

Product Number : D103990
Brand : aladdin
CAS-No. : 554-00-7

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

# 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

 $Specific \ target \ organ \ toxicity - single \ exposure \ (Category \ 1), H370$ 

Specific target organ toxicity - repeated exposure (Category 1), H372

Short-term (acute) aquatic hazard (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

### 2.2 GHS Label elements, including precautionary statements

**Pictogram** 









Signal word

#### ALADDIN SCIENTIFIC CORPORATION

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Signal word	Danger
Hazard statement(s)	
H302	Harmful if swallowed
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects H311+H331 Toxic in contact with skin or if inhaled.

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

Danger

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.
P391 Collect spillage.

P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to an approved waste disposal plant.

P301+P316 IF SWALLOWED: Get emergency medical help immediately.

P316 Get emergency medical help immediately.

P319 Get medical help if you feel unwell.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : no data available
Formula : C6H5Cl2N
Molecular weight : 162.02
CAS No. : 554-00-7
EC-NO. : 209-057-8

Component Classification Concentration

2,4-Dichloroaniline

no data available ≥99%

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#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

# 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature see product label.

# 7.3 Specific end use(s)

no data available

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection



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Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

no data available

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance form: powder or crystals color: white to off-white to brown

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 59-65°C f) Initial boiling point and boiling range 245°C g) Flash point 115°C

h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive

limits no data available k) Vapour pressure no data available l) Vapour density no data available

m) Relative density 1.567

n) Water solubility Slightly soluble in water, soluble in ethanol and ether.

o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available s) Explosive properties N no data available t) Oxidizing properties N no data available

# 9.2 Other safety information

no data available

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.



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### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Oxidizing agents Acid chlorides Acid anhydrides acids

#### 10.4 Conditions to avoid

Strong heating.

# 10.5 Incompatible materials

no data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 1,600 mg/kg

Remarks: Behavioral: Muscle weakness.

Cyanosis

Respiratory disorder

(RTECS)

Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist

(Expert judgment)

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert judgment)

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Carcinogenicity

no data available

# Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

Toxic if inhaled. May cause respiratory tract irritation.



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### Aspiration hazard

Toxicity to fish mortality NOEC - Gasterosteus aculeatus -  $5.2 \, \text{mg/l\&nbsp}$ ; -  $96 \, \text{h \&nbsp}$ ; LC50 - Pimephales promelas (fathead minnow) -  $8.8 \, \text{mg/l\&nbsp}$ ; Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) -  $0.71 \, \text{mg/l\&nbsp}$ ; -  $48 \, \text{h \&nbsp}$ ; Toxicity to algae EC50 - Phaeodactylum tricornutum -  $1.1 \, \text{mg/l\&nbsp}$ ; -  $72 \, \text{h}$ 

#### **Additional Information**

RTECS: BX2600000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

This substance should be handled with particular care.

After absorption:

Cyanosis

Dizziness

Headache

Damage to:

Liver

Kidney

Danger of cumulative effects.

The following applies to aromatic amines in general: systemic effect:

methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure,

dyspnoea, and spasms, principal symptom: cyanosis (blue discolouration of the blood).

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 9 mg/l - 96 h

Remarks: (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1.3 mg/l - 48 h

Remarks: (ECOTOX Database)

Toxicity to algae EC50 - Phaeodactylum tricornutum - 1.1 mg/l - 72 h

Remarks: (ECOTOX Database)

Toxicity to bacteria EC50 - Bacteria - 19 mg/l - 3 h

(OECD Test Guideline 209)

# 12.2 Persistence and degradability

Biodegradability Result: > 95 % - Readily eliminated from water (OECD Test Guideline 302B)

### 12.3 Bioaccumulative potential



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Bioaccumulation Danio rerio (zebra fish) - 96 h - 32.4 µg/l(2,4-Dichloroaniline) Bioconcentration factor (BCF): 94.7

### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

Biological effects: Forms toxic mixtures in water, dilution measures notwithstanding. Discharge into the environment must be avoided.

#### **SECTION 13:**

# 13.1 Disposal considerations

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

DOT (US)

UN number: 3442 Packing group: II Class: 6.1

Proper shipping name: Dichloroanilines, Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

solid available available available

**Environmental Hazards: YES** 

**IMDG** 

UN number: 3442 Packing group: II EMS-No: no data available

Proper shipping name: Dichloroanilines, solid

IATA

UN number: 3442 Packing group: II Class: 6.1

Proper shipping name: Dichloroanilines, solid

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

# **SECTION 16: Other information**



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Prepared By Regulatory Affairs

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