

SDS

SAFETY DATA SHEET

Oakwood Products, Inc
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Phone Numbers:

| | |
|--------------------------|--------------|
| Product Information | 803-739-8800 |
| Transportation Emergency | 800-451-8346 |
| Outside the USA | 760-602-8700 |

MATERIAL IDENTIFICATIONNAME: **3,4-oxydianiline**

CAS#: [2657-87-6]

CAT#: 092225

For R&D use only.

HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity, oral (Category 3)

Acute toxicity, dermal (Category 3)

Sensitisation, Skin (Category 1)

Acute toxicity, inhalation (Category 3)

Germ cell mutagenicity (Category 2)

Carcinogenicity (Category 2)

Reproductive toxicity (Category 2)

Hazardous to the aquatic environment, long-term hazard (Category 1)

GHS Label elements, including precautionary statements

Pictograms



Signal Word

Danger

Hazard Statement(s)

| | |
|------|--|
| H301 | Toxic if swallowed |
| H311 | Toxic in contact with skin |
| H317 | May cause an allergic skin reaction |
| H331 | Toxic if inhaled |
| H341 | Suspected of causing genetic defects |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary Statement(s)

| | |
|--------------------|--|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| 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/physician. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P311 | Call a POISON CENTER or doctor/physician. |

COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₁₂H₁₂N₂O
Molecular Weight : 200.24

| CAS | Description | Concentration |
|-----------|------------------|---------------|
| 2657-87-6 | 3,4-oxydianiline | 97% |

FIRST AID MEASURES**In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product

emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions

Prevent further leakage if safe to do so.

Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE

Precautions for safe handling

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

EXPOSURE CONTROL/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection

Avoid all direct contact with product.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

After contact with skin, wash immediately.

Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-------------------|
| Appearance | solid |
| Odour | no data available |
| Odour Threshold | no data available |
| Melting point/Freezing Point | 67-71°C |
| Boiling Point | 207°C/1 mm Hg |
| Flash Point | no data available |
| Evaporation Rate | no data available |
| Flammability (solid, gas) | no data available |
| Upper/Lower Flammability or Explosive limits | no data available |

| | |
|--|-------------------|
| Vapour pressure | no data available |
| Relative Density | no data available |
| Solubility(ies) | no data available |
| Partition coefficient: n-octanol/water | no data available |
| Auto-ignition temperature | no data available |
| Decomposition temperature | no data available |
| Viscosity | no data available |
| Refractive Index | no data available |

STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide, and nitrogen oxides.

TOXICOLOGICAL INFORMATION

Acute toxicity

Skin corrosion/irritation

Rabbit - No skin irritation - 4h

Serious eye damage/eye irritation

Rabbit - No eye irritation

Respiratory or skin sensitization

Sensitisation test - Guinea pig

May cause skin sensitisation by skin contact.

Germ cell mutagenicity

Ames test

S. typhimurium

Result: positive

Carcinogenicity

Suspected of causing cancer

Reproductive toxicity

Suspected human reproductive toxicant.

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

Exposure Routes

Harmful to skin, eyes, and respiratory system.
May be toxic if inhaled or swallowed.

Signs and Symptoms of Exposure

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 health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish:

semi-static test LC50 - Pimephales promelas (fathead minnow) - 22 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates:

static test EC50 - Daphnia magna (Water flea) - 0.92 mg/l - 48 h

Toxicity to algae:

static test ErC50 - Scenedesmus capricornutum (fresh water algae) - 21.7 mg/l-72h

Toxicity to bacteria:

Respiration inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

TRANSPORT INFORMATION

DOT

Toxic solids, organic, n.o.s.

6.1

UN2811 II

IMDG

Toxic solid, organic, n.o.s.

6.1

UN2811 II

EMS-No: F-A, S-A

Marine Pollutant: No

IATA

Toxic solid, organic, n.o.s.

6.1

UN2811 II

REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

New Jersey Right to Know Components

This product may contain a chemical on the New Jersey Right to Know Components List.

3,4-oxydianiline

CAS

2657-87-6

California Prop. 65 Components

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.0

Revision Date : 8/16/2018

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.