Print Date: 12/09/2018

SDS

SAFETY DATA SHEET

Oakwood Products, Inc 730 Columbia HWY N Estill, SC 29918

www.oakwoodchemical.com

Phone Numbers:

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

MATERIAL IDENTIFICATION

NAME: Rotenone CAS#: [83-79-4] CAT#: 241975 For R&D use only.

HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity, oral (Category 3)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Respiratory tract irritation (Category 3)
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
H315 Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory irritation

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

protection.

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P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

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

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.

P309 + P311 IF exposed or if you feel unwell: call a POISON CENTER or

doctor/physician.

COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C23H22O6 Molecular Weight : 394.43

| CAS | Description | Concentration |
|---------|-------------|---------------|
| 83-79-4 | Rotenone | 95% |

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.

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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. Light sensitive.

EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:

| | | | TWA | |
|----------------------|-----------|-----|-------|--|
| Component Name (CAS) | Reference | ppm | mg/m3 | |
| Rotenone (83-79-4) | OSHA | | 5 | |

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 159-164°C

Boiling Point 210-220°C/0.5mm 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

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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

Light.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May evolve carbon monoxide and carbon dioxide.

TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

Rat - 60 mg/kg

Dermal LD50

Rabbit - > 1,000 mg/kg

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Mutagen

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

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May cause respiratory irritation

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

Vomiting, Diarrhea, Convulsions, Central nervous system depression.

Target Organs

Stomach - Irregularities - Based on Human Evidence

Additional Information

RTECS: DJ2800000

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish:

LC50 - Carassius auratus (goldfish) - 0.41 - 0.6 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia pulex (Water flea) - 0.074 - 0.134 mg/l - 48 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.

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6.1

UN2811 III

IMDG

Toxic solid, organic, n.o.s.

6.1

UN2811 III

EMS-No: F-A, S-A Marine Pollutant: No

IATA

Toxic solid, organic, n.o.s.

6.1

UN2811 III

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 contains a chemical on the New Jersey Right to Know Components List.

CAS

Rotenone 83-79-4

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: 1.2

Revision Date: 10/12/2018

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.

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