# **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: 4,4'-(Diazene-1,2-diyl)bis(4-cyanopentanoic acid) (contains up to 18%

water)

CAS#: [2638-94-0] CAT#: 212738 For R&D use only.

#### HAZARDS IDENTIFICATION

## **GHS Classification**

Flammable liquids (Category 2)

Self-reactive substances and mixtures (Type D)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Respiratory tract irritation (Category 3)

Hazardous to the aquatic environment, acute hazard (Category 3)

## GHS Label elements, including precautionary statements

Pictograms



Signal Word Danger

Hazard Statement(s)

H225 Highly Flammable liquid and vapour

H242 Heating may cause a fire
H315 Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory irritation

H402 Harmful to aquatic life

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No

smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P233 Keep container tightly closed.
P234 Keep only in original container.
P273 Avoid release to the environment.

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

protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P403 + P235 Store in a well-ventilated place. Keep cool.

#### COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 4,4'-Azobis(4-cyanovaleric acid), 4,4'-Azobis(4-cyanopentanoic acid),

ABCVA, ACVA

Formula : C12H16N4O4 Molecular Weight : 280.29 g/mol

| CAS       | Description   | Concentration |
|-----------|---|---------------|
| 2638-94-0 | 4,4'-(Diazene-1,2-diyl)bis(4-cyanopentanoic acid) (contains | 98%           |
|           | up to 18% water)  |               |

## **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.

Light sensitive.

Keep cold.

Recommended storage temperature: 2-8°C

#### **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 white solid

Odour Odour Threshold no data available no data available

Melting point/Freezing Point 118-125°C

Boiling Point no data available
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

Light.

Heat, flames and sparks. Extremes of temperature and direct sunlight.

## Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

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

## **TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

#### Oral LD50

Rat - >2,000 mg/kg

## **Intraperitoneal LD50**

Mouse - 666 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

no data available

## Carcinogenicity

no data available

#### Reproductive toxicity

no data available

## STOT-single exposure

May cause respiratory irritation

#### STOT-repeated exposure

no data available

#### **Aspiration hazard**

no data available

#### **Exposure Routes**

Irritating to skin, eyes, and respiratory system. May have harmful effects if inhaled or swallowed.

## Additional Information

RTECS: YV6190500

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

#### **ECOLOGICAL INFORMATION**

## **Toxicity**

Toxicity to fish:

Mortality LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96h

Toxicity to daphnia and other aquatic invertebrates:

Immobilization EC50 - Daphnia magna (water flea) - 31.6 mg/l - 48h

## 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

Self-reactive solid type D 4.1 UN3226 II

#### **IMDG**

Self-reactive solid type D 4.1 UN3226 EMS-No: F-J, S-G

EMS-No: F-J, S-G Marine Pollutant: No

#### **IATA**

Self-reactive solid type D 4.1 UN3226

#### 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.

CAS

4,4'-(Diazene-1,2-diyl)bis(4-cyanopentanoic acid) (contains up to 18% water) 2638-94-0

## 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: 3/21/2017

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.