# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/28/2009 Print Date 03/19/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tetrafluoroisophthalonitrile

Product Number : 327239 Brand : Aldrich

Company : Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>8</sub>F<sub>4</sub>N<sub>2</sub> Molecular Weight : 200.09 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Tetrafluoroisopht	halonitrile		
2377-81-3	-	-	-

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** 

No known OSHA hazards

**HMIS Classification** 

Health Hazard: 0 Flammability: 0 Physical hazards: 0

**NFPA** Rating

Health Hazard: 0 Fire: 0 Reactivity Hazard: 0

#### **Potential Health Effects**

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.SkinMay be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. Ingestion May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

#### **5. FIRE-FIGHTING MEASURES**

# Flammable properties

Flash point no data available Ignition temperature no data available

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

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

#### 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

# Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

# Eye protection

Safety glasses with side-shields conforming to EN166

## Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form crystalline
Colour white

# Safety data

pH no data available

Melting point 78 - 79 °C (172 - 174 °F) - lit.

Boiling point no data available

Flash point no data available Ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Water solubility no data available

# 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen fluoride, Hydrogen cyanide (hydrocyanic acid)

# 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

no data available

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

### **Chronic exposure**

IARC: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

# Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Potential Health Effects**

InhalationSkinMay be harmful if inhaled. May cause respiratory tract irritation.May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

#### 12. ECOLOGICAL INFORMATION

# Elimination information (persistence and degradability)

no data available

# **Ecotoxicity effects**

no data available

# Further information on ecology

no data available

# 13. DISPOSAL CONSIDERATIONS

#### **Product**

Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

# 15. REGULATORY INFORMATION

#### **OSHA Hazards**

No known OSHA hazards

#### **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No. 2377-81-3

Tetrafluoroisophthalonitrile

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: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

CAS-No.

Revision Date

Tetrafluoroisophthalonitrile

2377-81-3

## **New Jersey Right To Know Components**

CAS-No.

Revision Date

Tetrafluoroisophthalonitrile

2377-81-3

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

### 16. OTHER INFORMATION

#### **Further information**

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