# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/29/2009 Print Date 03/12/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 2-Chloro-4-(trifluoromethyl)benzonitrile

Product Number : 567620 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

Synonyms : 3-Chloro-4-cyanobenzotrifluoride

Formula : C<sub>8</sub>H<sub>3</sub>CIF<sub>3</sub>N Molecular Weight : 205.56 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
2-Chloro-4-trifluoromethylbenzonitrile			
1813-33-8	-	-	-

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

#### **OSHA Hazards**

No known OSHA hazards

# **HMIS Classification**

Health Hazard: 0 Flammability: 1 Physical hazards: 0

# **NFPA Rating**

Health Hazard: 0 Fire: 1 Reactivity Hazard: 0

### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

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

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# 4. FIRST AID MEASURES

#### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water.

### 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.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point 104.4 °C (219.9 °F) - closed cup

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

Avoid breathing vapors, mist or gas.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

# Handling

Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

## **Respiratory protection**

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. 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

#### **Hygiene measures**

General industrial hygiene practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form liquid

Colour colourless

Safety data

pH no data available

Melting point no data available

Boiling point 192 - 193 °C (378 - 379 °F) - lit.

Flash point 104.4 °C (219.9 °F) - closed cup

Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Density 1.389 g/mL at 25 °C (77 °F)

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**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.Skin 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.

2-Chloro-4-trifluoromethylbenzonitrile

1813-33-8

CAS-No.

1813-33-8

**Revision Date** 

#### **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

2-Chloro-4-trifluoromethylbenzonitrile

**New Jersey Right To Know Components** 

2-Chloro-4-trifluoromethylbenzonitrile CAS-No. Revision Date 1813-33-8

#### 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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