

## Material Safety Data Sheet

Version 4.0

Revision Date 02/27/2010

Print Date 04/09/2010

---

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 1,3,5-Trichlorobenzene

Product Number : 36555

Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd  
2149 Winston Park Drive  
OAKVILLE ON L6H 6J8  
CANADA

Telephone : +19058299500

Fax : +19058299292

Emergency Phone # : 800-424-9300

---

2. HAZARDS IDENTIFICATION

## Emergency Overview

## Target Organs

Liver, Kidney, Thyroid.

## WHMIS Classification

D2B Toxic Material Causing Other Toxic Effects      Moderate skin irritant  
Moderate respiratory irritant  
Moderate eye irritant

## GHS Label elements, including precautionary statements

Pictogram



Signal word      Warning

## Hazard statement(s)

H302 + H312      Harmful if swallowed or in contact with skin.  
H315      Causes skin irritation.  
H319      Causes serious eye irritation.  
H332      Harmful if inhaled.  
H335      May cause respiratory irritation.  
H412      Harmful to aquatic life with long lasting effects.

## Precautionary statement(s)

P261      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264      Wash skin thoroughly after handling.  
P270      Do not eat, drink or smoke when using this product.  
P271      Use only outdoors or in a well-ventilated area.  
P273      Avoid release to the environment.  
P280      Wear protective gloves/eye protection/face protection.  
P301 + P312      IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
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.  
P312      Call a POISON CENTER or doctor/physician if you feel unwell.  
P322      Specific measures (see supplemental first aid instructions on this label).

P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

#### HMIS Classification

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	1
Physical hazards:	0

#### Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub>
Molecular Weight	: 181.45 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>1,3,5-Trichlorobenzene</b>			
108-70-3	203-608-6	-	-

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 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

#### 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. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

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

## 7. HANDLING AND STORAGE

### Precautions for safe 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.

### Conditions for safe 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

Handle with 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	beige

### Safety data

pH	no data available
Melting point	56 - 60 °C (133 - 140 °F) - lit.
Boiling point	208 °C (406 °F) - lit.
Flash point	107 °C (225 °F) - closed cup
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

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents, acids

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 800 mg/kg

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

Genotoxicity in vivo - mouse - Intraperitoneal  
Micronucleus test

### Carcinogenicity

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.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure (GHS)

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure (GHS)

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

### Signs and Symptoms of Exposure

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

### Additional Information

RTECS: DC2100100

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

### Bioaccumulative potential

Bioaccumulation	Poecilia reticulata (guppy) - 19 d
	Bioconcentration factor (BCF): 14,000

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

no data available

---

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### **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

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### **WHMIS Classification**

D2B	Toxic Material Causing Other Toxic Effects	Moderate skin irritant
		Moderate respiratory irritant
		Moderate eye irritant

---

### 16. OTHER INFORMATION

#### **Further information**

Copyright 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.