# SAFETY DATA SHEET

Version 4.3 Revision Date 10/13/2016 Print Date 12/15/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 4-tert-Butylphenylacetylene

Product Number : 593001 Brand : Aldrich

Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich Canada Co. Manufactur : Sigma-Aldrich Corporation

2149 Winston Park Drive er 3050 Spruce St.

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

**USA** 

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Emergency Phone # (For

**Preparation Information** 

both supplier and manufacturer)

our supplier and

Product Safety - Americas Region

Sigma-Aldrich Corporation

+1-703-527-3887 (CHEMTREC)

1-800-521-8956

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## **WHMIS Classification**

B3 Combustible Liquid Combustible Liquid

## **GHS Classification**

Flammable liquids (Category 4)
Acute toxicity, Oral (Category 5)
Eye irritation (Category 2B)
Acute aquatic toxicity (Category 1)

Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 4)

## GHS Label elements, including precautionary statements

Pictogram

\*

Signal word Warning

Hazard statement(s)

H227 Combustible liquid.

H303 May be harmful if swallowed. H320 Causes eye irritation. H400 Very toxic to aquatic life.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.

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

present and easy to do. Continue rinsing.

**HMIS Classification** 

Health hazard: 1 Flammability: 2

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Physical hazards: 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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>12</sub>H<sub>14</sub>
Molecular weight : 158.24 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
4-tert-Butylphenylacetylene			
772-38-3	-	-	<=100%

## 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

## Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

## Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Hazardous combustion products**

## Explosion data - sensitivity to mechanical impact

No data available

## Explosion data - sensitivity to static discharge

No data available

#### **Further information**

Use water spray to cool unopened containers.

# 6. ACCIDENTAL RELEASE MEASURES

# **Personal precautions**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

## Conditions for safe 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

## Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

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

# Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form liquid
Colour colourless

# Safety data

pH No data available
Melting No data available

point/freezing point

Boiling point 70 °C (158 °F) at 3 hPa (2 mmHg) - lit.

Flash point 82.2 °C (180.0 °F) - closed cup

Ignition temperature No data available
Auto-ignition No data available

temperature

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Lower explosion limit No data available
Upper explosion limit No data available
Vapour pressure No data available

Density 0.877 g/cm3 at 25 °C (77 °F)

Water solubility No data available Partition coefficient: log Pow: 4.394

n-octanol/water

Relative vapour

No data available

density

Odour No data available
Odour Threshold No data available
Evaporation rate No data available

## 10. STABILITY AND REACTIVITY

## **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks.

#### Materials to avoid

Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

### Oral LD50

No data available

# **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

# Other information on acute toxicity

No data available

# Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitisation

## Germ cell mutagenicity

No data available

# 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.

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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.

## Reproductive toxicity

No data available

## **Teratogenicity**

No data available

# Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

# **Aspiration hazard**

No data available

#### Potential health effects

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

**Ingestion** May be harmful if swallowed.

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

**Eyes** May cause eye irritation.

## Signs and Symptoms of Exposure

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

# Synergistic effects

No data available

#### **Additional Information**

RTECS: Not available

## 12. ECOLOGICAL INFORMATION

#### **Toxicity**

No data available

# 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

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

Very toxic to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

# **Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

DOT (US)

NA-Number: 1993 Class: NONE Packing group: III

Proper shipping name: Combustible liquid, n.o.s. (4-tert-Butylphenylacetylene)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-tert-Butylphenylacetylene)

Marine pollutant: No

IATA

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (4-tert-Butylphenylacetylene)

## **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## 15. REGULATORY INFORMATION

#### **WHMIS Classification**

B3 Combustible Liquid

Combustible Liquid

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

# 16. OTHER INFORMATION

## **Further information**

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