# SIGMA-ALDRICH

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# **Material Safety Data Sheet**

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1. PRODUCT AND COMPANY IDENTIFICATION				
Product name	: 4-Fluorobenzyl mercaptan			
Product Number Brand	: 539155 : Aldrich			
Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA			
Telephone Fax Emergency Phone #	: +18003255832 : +18003255052 : (314) 776-6555			

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

OSHA Hazards Combustible Liquid

Other hazards which do not result in classification Stench.

## GHS Label elements, including precautionary statements

Pictogram	none		
Signal word	Warning		
Hazard statement(s) H227	Combustible liquid		
Precautionary statement(s)	none		
HMIS Classification Health hazard: Flammability: Physical hazards:	0 2 0		
NFPA Rating Health hazard: Fire: Reactivity Hazard:	0 2 0		
Potential Health Effects			
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.		

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula Molecular Weight	: C <sub>7</sub> H <sub>7</sub> FS : 142.19 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	

p-Fluorotoluene-α-thiol			
15894-04-9	240-031-9	-	-

## 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

Flush eyes with water as a precaution.

#### If swallowed

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

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

#### 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 fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 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 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

Contains no substances with occupational exposure limit values.

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

	Form	liquid
	Colour	colourless
Safety data		
	рН	no data available
	Melting point	no data available
	Boiling point	72 - 74 °C (162 - 165 °F) at 20 hPa (15 mmHg) - lit.
	Flash point	76.67 °C (170.01 °F) - closed cup
	Ignition temperature	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Density	1.157 g/cm3 at 25 °C (77 °F)
	Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

## 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, Sulphur oxides, Hydrogen fluoride

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity no data available

# Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization

no data available

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.
- 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.

## **Reproductive toxicity**

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., Nausea, Headache, Vomiting

#### **Additional Information**

## **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

no data available

## 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.

## **14. TRANSPORT INFORMATION**

#### DOT (US)

UN-Number: 3334 Class: 9 Proper shipping name: Aviation regulated liquid, n.o.s. (p-Fluorotoluene-α-thiol) Marine pollutant: No Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

UN-Number: 3334 Class: 9 Proper shipping name: Aviation regulated liquid, n.o.s. (p-Fluorotoluene-α-thiol)

#### **15. REGULATORY INFORMATION**

## **OSHA Hazards**

**Combustible Liquid** 

#### **DSL Status**

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

p-Fluorotoluene-α-thiol

## 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

Fire Hazard

## Massachusetts Right To Know Components

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

## Pennsylvania Right To Know Components

p-Fluorotoluene-α-thiol	CAS-No. 15894-04-9	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
p-Fluorotoluene-α-thiol	15894-04-9	

#### California Prop. 65 Components

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

## **16. OTHER INFORMATION**

#### **Further information**

15894-04-9

CAS-No.

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