# **SIGMA-ALDRICH**

## **Material Safety Data Sheet**

Version 4.0 Revision Date 04/05/2010 Print Date 04/02/2011

Product name	:	1-NITRO-4-(1,1,2,2-TETRAFLUOROETHOXY)BENZENE
Product Number		L497703
Brand	-	Aldrich
Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+18003255832
Fax		+18003255052
Emergency Phone #	:	(314) 776-6555
ZARDS IDENTIFICATION	١	
Emergency Overview		

**OSHA Hazards** Harmful by ingestion., Irritant

## GHS Label elements, including precautionary statements

Pictogram		
Signal word	Warning	
Hazard statement(s) H302 H319	Harmful if swallowed. Causes serious eye irritation.	
Precautionary statement(s) 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: Flammability: Physical hazards:	2 0 0	
NFPA Rating Health hazard: Fire: Reactivity Hazard:	2 0 0	
Potential Health Effects		
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Harmful if swallowed.	
OMPOSITION/INFORMATION ON INGREDIENTS		

## 3. COM

Formula	: C8H5F4NO3
Molecular Weight	: 239.13 g/mol

CAS-No.	S-No. EC-No. Index-No. Concentration		Concentration	
1-NITRO-4-(1,1,2,2-TETRAFLUOROETHOXY)BENZENE				
28202-32-6	-	-	-	

## 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.

#### 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 solid

#### Safety data

рН	no data available
Melting point	no data available
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
Partition coefficient: n-octanol/water	log Pow: 2.472

#### **10. STABILITY AND REACTIVITY**

#### **Chemical stability**

Stable under recommended storage conditions.

#### Conditions to avoid

no data available

## Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

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

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity no data available

Skin corrosion/irritation no data available

#### Serious eye damage/eye irritation

**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 (GHS) no data available

**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**

#### **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

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

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

#### **OSHA Hazards**

Harmful by ingestion., Irritant

#### **DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

	CAS-No.
1-NITRO-4-(1,1,2,2-TETRAFLUOROETHOXY)BENZENE	28202-32-6

#### 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

Acute Health Hazard

#### Massachusetts Right To Know Components

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

#### Pennsylvania Right To Know Components

1-NITRO-4-(1,1,2,2-TETRAFLUOROETHOXY)BENZENE	CAS-No. 28202-32-6	Revision Date
New Jersey Right To Know Components		
1-NITRO-4-(1,1,2,2-TETRAFLUOROETHOXY)BENZENE	CAS-No. 28202-32-6	Revision Date

#### 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**

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