SIGMA-ALDRICH

# Material Safety Data Sheet

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Version 1.10

## Section 1 - Product and Company Information

**Product Name** FORMALDEHYDE-O-PENTAFLUOROPHENYLMETHYL-O
**Product Number** 41558
**Brand** Fluka Chemical

**Company** Sigma-Aldrich
**Address** 3050 Spruce Street
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US
**Technical Phone:** 800-325-5832 **Emergency Phone:** 314-776-6555
**Fax:** 800-325-5052

## Section 2 - Composition/Information on Ingredient

| Substance Name | CAS # | SARA 313 | EC no | Annex I Index Number |
|---|---|---|---|---|
| FORMALDEHYDE-O-PENTAFLUOROPHENYLMETHYL-OXIME | 86356-73-2 | No | | |

**Formula** C8H4F5NO
**Synonyms** Formaldehyde -O-2,3,4,5,6-PFBHA-oxime

## Section 3 - Hazards Identification

**Emergency Overview**
Irritant.
Irritating to eyes, respiratory system and skin.

**HMIS Rating**
Health: 2 Flammability: 0 Reactivity: 0

**NFPA Rating**
Health: 2 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

**Oral Exposure**
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**
In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

## Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

**Extinguishing Media**
**Suitable**
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting**
**Protective Equipment**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
**Specific Hazard(s)**
Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s)**
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**
Absorb on sand or vermiculite and place in closed containers for disposal.Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

**Handling**
**User Exposure**
Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage**
**Suitable**
Keep tightly closed. Store at 2-8°C

## Section 8 - Exposure Controls / PPE

**Engineering Controls**
Mechanical exhaust required. Safety shower and eye bath.

**Personal Protective Equipment**
**Respiratory**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.
**Hand**
Compatible chemical-resistant gloves.
**Eye**
Chemical safety goggles.

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**General Hygiene Measures**
Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

**Appearance**

| Physical State | Color |
|---|---|
| Clear liquid | Almost colorless |

| | |
|---|---|
| **Molecular Weight** | 225.12 AMU |
| **pH** | N/A |
| **BP/BP Range** | N/A |
| **MP/MP Range** | N/A |
| **Freezing Point** | N/A |
| **Vapor Pressure** | N/A |
| **Vapor Density** | N/A |
| **Saturated Vapor Conc.** | N/A |
| **SG/Density** | N/A |
| **Bulk Density** | N/A |
| **Odor Threshold** | N/A |
| **Volatile%** | N/A |
| **VOC Content** | N/A |
| **Water Content** | N/A |
| **Solvent Content** | N/A |
| **Evaporation Rate** | N/A |
| **Viscosity** | N/A |
| **Partition Coefficient** | Log Kow: 2.99 |
| **Decomposition Temp.** | N/A |
| **Flash Point °F** | N/A |
| **Flash Point °C** | N/A |
| **Explosion Limits** | N/A |
| **Flammability** | N/A |
| **Autoignition Temp** | N/A |
| **Solubility** | N/A |

**N/A = not available**

## Section 10 - Stability and Reactivity

**Stability**
**Stable**
Stable.
**Materials to Avoid**
Strong oxidizing agents.

**Hazardous Decomposition Products**
**Hazardous Decomposition Products**
Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen fluoride



**Hazardous Polymerization**
**Hazardous Polymerization**
Will not occur.

## Section 11 - Toxicological Information

**Route of Exposure**
**Skin Contact**
Causes skin irritation.
**Skin Absorption**
May be harmful if absorbed through the skin.
**Eye Contact**
Causes eye irritation.
**Inhalation**
Material is irritating to mucous membranes and upper respiratory tractMay be harmful if inhaled.
**Ingestion**
May be harmful if swallowed.

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

**RTECS Number:** N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation**
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

**DOT**
**Proper Shipping Name:** None
**Non-Hazardous for Transport** This substance is considered to be nonhazardous for transport.

**IATA**
**Non-Hazardous for Air Transport** Non-hazardous for air transport.

## Section 15 - Regulatory Information

**EU Additional Classification**
**Symbol of Danger:** Xi
**Indication of Danger**
Irritant.
**Risk Statements** **R:** 36/37/38
Irritating to eyes, respiratory system and skin.
**Safety Statements** **S:** 26
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**US Classification and Label Text**
**Indication of Danger**
Irritant.
**Risk Statements**
Irritating to eyes, respiratory system and skin.



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**Safety Statements**
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**United States Regulatory Information**
**SARA Listed:** No

**Canada Regulatory Information**
**WHMIS Classification**
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
**DSL:** No
**NDSL:** No

## Section 16 - Other Information

**Disclaimer**
For R&D use only. Not for drug, household or other uses.

**Warranty**
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 stateof 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. SigmAldrich Inc., shall not be held liable for any damage resulting from handling or fom contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



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