



# SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 11/10/2004  
Date Updated: 04/11/2004  
Version 1.40

### Section 1 - Product and Company Information

<b>Product Name</b>	Xylenol Orange sodium salt, ACS REAGENT		
<b>Product Number</b>	X0127		
<b>Brand</b>	Sigma Chemical		
<b>Company</b>	Sigma-Aldrich		
<b>Street Address</b>	3050 Spruce Street		
<b>City, State, Zip, Country</b>	SAINT LOUIS, MO 63103 US		
<b>Technical Phone:</b>	314 771 5765		
<b>Fax:</b>	800 325 5052	<b>Emergency Phone:</b>	414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
XYLENOL ORANGE SODIUM ACS REAGENT	3618-43-7	Yes	222-805-8	

<u>Ingredient Name</u>	<u>CAS #</u>	<u>Percent</u>	<u>SARA 313</u>
The following substances are present as residual components of production.			
METHANOL	67-56-1	1.000 %	Yes

**Formula** C<sub>31</sub>H<sub>28</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>13</sub>S  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Toxic.  
Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.  
Target organ(s): Nerves. Liver.

#### HMIS Rating

Health: 2\*      Flammability: 1      Reactivity: 0

#### NFPA Rating

Health: 2      Flammability: 1      Reactivity: 0

\*additional chronic hazards present.

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 breathing becomes difficult, call a physician.

**Dermal Exposure**

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

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

---

**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**

---

**Methods for Cleaning Up**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

---

**Section 7 - Handling and Storage**

---

**Handling****User Exposure**

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage****Suitable**

Keep tightly closed.

---

**Section 8 - Exposure Controls / PPE**

---

**Engineering Controls**

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Wear dust mask.

**Hand**

Protective gloves.

**Eye**

Chemical safety goggles.

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

---

## Section 9 - Physical/Chemical Properties

---

### Appearance

**Physical State**  
Solid

**Molecular Weight:** 760.6 AMU

**pH** N/A  
**BP/BP Range** N/A  
**MP/MP Range** 210 °C  
**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** N/A  
**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**  
**Solubility in Water:** Soluble.

N/A = not available

---

## Section 10 - Stability and Reactivity

---

### Stability

**Stable**  
Stable.

### Materials to Avoid

Strong oxidizing agents, Acids, Acid chlorides, Acid anhydrides, Alkali metals, Reducing agents.

### Hazardous Decomposition Products

#### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

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

---

## Section 11 - Toxicological Information

---

### Route of Exposure

#### Skin Contact

May cause skin irritation.

#### Skin Absorption

May be harmful if absorbed through the skin.

#### Eye Contact

May cause eye irritation.

#### Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

#### Ingestion

May be harmful if swallowed.

### Target Organ(s) or System(s)

Nerves. Liver. Kidneys. Blood. Heart. Eyes.

### Signs and Symptoms of Exposure

Can cause CNS depression. Exposure can cause: Nausea, headache, and vomiting. Narcotic effect. Damage to the heart. Anemia. Ingestion can cause: Gastrointestinal disturbances. Dizziness. Weakness. Confusion. Drowsiness. Unconsciousness. May cause convulsions.

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 non-hazardous for transport.

### IATA

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

---

## Section 15 - Regulatory Information

---

### US Classification and Label Text

#### Indication of Danger

Toxic.

#### Risk Statements

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.

#### Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### US Statements

Target organ(s): Nerves. Liver.

**United States Regulatory Information****SARA Listed:** Yes**Notes:** This product is or contains a component that is subject to SARA313 reporting requirements.**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:** Yes**NDSL:** No

---

**Section 16 - Other Information**

---

**Disclaimer**

For R&amp;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 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 Inc., 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. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

**SIGMA-ALDRICH**

3050 Spruce Street  
SAINT LOUIS, MO 63103 US  
Technical Phone: 314 771 5765  
Emergency Phone: 414 273 3850 Ext. 5996  
Fax: 800 325 5052  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

## Have you seen our new MSDS' Online?

We've listened to you and improved the efficiency, accessibility and content of our material safety data sheets (MSDS). Access them online, 24 hours a day, at [www.sigma-aldrich.com](http://www.sigma-aldrich.com).

For your convenience, our new format is easier-to-read and contains even more of the information you requested, such as HMIS/NFPA and transportation classification.

Visit us today and gain immediate access to more than 80,000 MSDS documents. We appreciate the opportunity to serve you and welcome your feedback on our enhanced MSDS format. Contact us at [msds@sial.com](mailto:msds@sial.com) or (800) 521-8956 ext. 2143

Sigma-Aldrich MSDS Team

Reserve your **FREE** copy of the **Best Seller in Science**. The 2004 – 2005 Sigma General Catalog will be available soon, featuring the world's largest selection of research products. Get a **FREE** Metabolic Pathways Poster when you reserve your catalog now: [www.sigma-aldrich.com/genecat](http://www.sigma-aldrich.com/genecat)

**SIGMA-ALDRICH**

3050 Spruce Street  
SAINT LOUIS, MO 63103 US  
Technical Phone: 314 771 5765  
Emergency Phone: 414 273 3850 Ext. 5996  
Fax: 800 325 5052  
[www.sigma-aldrich.com](http://www.sigma-aldrich.com)

PAMELA SCOTT  
GRAND RAPIDS COMMUNITY COLLEGE  
PHYSICAL SCIENCE DEPT  
151 FOUNTAIN NE  
GRAND RAPIDS, MI 49503  
US

11/10/04

Fax: 6162343590

Dear Sigma-Aldrich Customer

We recently reorganized our MSDS to better serve you, our valued customer. In addition to an updated look, our sheets now feature a revision date, NFPA/HMIS ratings, and transportation information.

As always, customer service is our top priority. Please contact the MSDS department toll-free at 800-521-8956 ext. 2143 if you have any questions or comments.

**MSDS Reference Number: P12378271**

**Attached please find the Material Safety Data Sheets you requested.**

Material: Sigma Chemical - X0127 XYLENOL ORANGE SODIUM ACS REAGENT  
Substance : 3618-43-7 XYLENOL ORANGE SODIUM ACS REAGENT SARA 313: Yes