



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 05/07/2008  
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Version 1.50

### Section 1 - Product and Company Information

Product Name Igepal® CO-630  
Product Number 542334  
Brand Aldrich Chemical

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

Emergency Phone: 314-776-6555

### Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
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IGEPA CO-*	68412-54-4	No		
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Ingredient Name	CAS #	Percent	SARA 313
1,4-DIOXANE	123-91-1	< 0.003 %	Yes
ETHYLENE OXIDE	75-21-8	< 0.000 %	Yes

Formula (C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>-C<sub>15</sub>H<sub>24</sub>O  
Synonyms Alkylphenol ethoxylate nonylphenoxy poly(ethyleneoxy)ethanol, branchedethoxylated nonylphenol, branched

### Section 3 - Hazards Identification

#### Emergency Overview

Irritant.  
Irritating to skin.  
Calif. Prop. 65 carcinogen & reproductive hazard.

HMIS Rating  
Health: 2 Flammability: 1 Reactivity: 0

NFPA Rating  
Health: 2 Flammability: 1 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

Flash Point: 212 °F 100 °C

Autoignition Temp: N/A

#### 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.

### 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 fullface 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 fullface 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

<b>Appearance</b>			
<b>Physical State</b>		<b>Color</b>	
Clear viscous liquid		Colorless	
<b>Molecular Weight</b>	N/A		
<b>Property</b>	<b>Value</b>	<b>At Temperature or Pressure</b>	<b>Other</b>
pH	6 - 8		Concentration: 100 g/l
BP/BP Range	> 200 °C	760 mmHg	
MP/MP Range	N/A		
Freezing Point	N/A		
Vapor Pressure	< 0.01 mmHg	25 °C	
Vapor Density	N/A		
Saturated Vapor Conc.	N/A		
SG/Density	0.96 g/cm3		
Bulk Density	N/A		
Odor Threshold	N/A		
Volatile%	< 0.5 %		
VOC Content	N/A		
Water Content	N/A		
Solvent Content	N/A		
Evaporation Rate	N/A		
Viscosity	0.012 - 0.014 Pas	100 °C	
Partition Coefficient	N/A		
Decomposition Temp.	N/A		
Flash Point °F	212 °F		Method: closed cup
Flash Point °C	100 °C		Method: closed cup
<b>Explosion Limits</b>	N/A		
<b>Flammability</b>	N/A		
<b>Autoignition Temp</b>	N/A		
<b>Refractive Index</b>	1.508		
<b>Solubility</b>			
Solubility in Water:	Soluble.		

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
**Stable**  
Stable.  
**Conditions to Avoid**  
Heat, spark open flame  
**Materials to Avoid**  
Strong oxidizing agents, Strong reducing agents

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide

**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**  
May cause 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**  
Exposure can cause: Nausea, headache, and vomiting.To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:**

**Toxicity Data**  
Oral - Rat: 4000 mg/kg (LD50)

**Irritation Data**  
Skin - :  
Remarks: Moderate irritation effect  
Eyes - :  
Remarks: Severe irritation effect, Mild irritation effect

## Section 12 - Ecological Information

**Accumulation**  
**Bioaccumulation Potential**  
Indication of bioaccumulation.

**Acute Ecotoxicity Tests**  
**Test Type**  
LC50 Fish  
**Species**  
Lepomis macrochirus (Bluegill)  
**Time:** 96.0 h  
**Value:** > 10 mg/l

## 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:** Environmentally hazardous substances, liquid, n.o.s.  
UN#: 3082

**Class:** 9  
**Packing Group:** Packing Group III  
**Hazard Label:** Class 9  
**PIH:** Not PIH

**IATA**

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

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**Section 15 - Regulatory Information**

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**EU Additional Classification**

**Symbol of Danger:** Xi

**Indication of Danger**

Irritant.

**Risk Statements** R: 38

Irritating to skin.

**US Classification and Label Text**

**Indication of Danger**

Irritant.

**Risk Statements**

Irritating to skin.

**US Statements**

Calif. Prop. 65 carcinogen & reproductive hazard.

**United States Regulatory Information**

**SARA Listed:** No

**TSCA Inventory Item:** Yes

**United States - State Regulatory Information**

**California Prop - 65**

This product is or contains chemical(s) known to the state of California to cause cancer. This product is or contains chemical(s) known to the state of California to cause female reproductive toxicity.

**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

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**Section 16 - Other Information**

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**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 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. SigmaAldrich 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 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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