



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.60

Section 1 - Product and Company Information

**Product Name** Igepal CA-630, for molecular biology  
**Product Number** I8896  
**Brand** Sigma Chemical  
**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052  
**Emergency Phone:** 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>
IGEPAL CA-*	9036-19-5	No		
<u>Ingredient Name</u>	<u>CAS #</u>	<u>Percent</u>	<u>SARA 313</u>	
WATER	7732-18-5	< 0.500 %	No	
ETHYLENE OXIDE	75-21-8	< 0.002 %	Yes	
1,4-DIOXANE	123-91-1	< 0.002 %	Yes	

**Formula** (C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>-C<sub>14</sub>H<sub>22</sub>O  
**Synonyms** octylphenoxy poly(ethyleneoxy)ethanol, branched ethoxylated octylphenol, branched Poly(oxy-1,2-ethanedilyl), alpha-(octylphenyl)- omega -hydroxy-, branched Polyoxyethylene(\*)octylphenyl ether, branched

Section 3 - Hazards Identification

**Emergency Overview**

Calif. Prop. 65 carcinogen & reproductive hazard. Caution: Avoid contact and inhalation.

**HMIS Rating**

Health: 1 Flammability: 1 Reactivity: 0

**NFPA Rating**

Health: 1 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 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

**Flash Point:** > 200 °F > 93 °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

**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**

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**

**Hand**

Protective gloves.

**Eye**

Chemical safety goggles.

**General Hygiene Measures**

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

**Appearance**

**Physical State**

Clear liquid

**Color**

Faintly yellow

**Form**

Viscous

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Safety and Environmental  
Health

Molecular Weight: N/A

<u>Property</u>	<u>Value</u>	<u>At Temperature or Pressure</u>	<u>Other</u>
pH	6 - 8		Concentration: 100 g/l
BP/BP Range	> 200 °C	760 mmHg	
MP/MP Range	N/A		
Freezing Point			
Vapor Pressure	< 0.01 mmHg	25 °C	
Vapor Density	N/A		
Saturated Vapor Conc.	N/A		
SG/Density	1.04 g/cm3	25 °C	
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	0.008 - 0.010 Pas	100 °C	
Partition Coefficient	N/A		
Decomposition Temp.	N/A		
Flash Point °F	> 200 °F		Method: closed cup
Flash Point °C	> 93 °C		Method: closed cup
Explosion Limits	N/A		
Flammability	N/A		
Autoignition Temp	N/A		
Solubility			
Solubility in Water: Miscible.			

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
Stable.  
Stable.  
**Conditions to Avoid**  
Heat, open flame spark  
**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**  
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.

**Signs and Symptoms of Exposure**  
Diarrhea, Nausea.

**RTECS Number:** N/A

**Toxicity Data**  
Oral - Rat: 3,800 mg/kg(LD50)

## 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:** 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.

## Section 15 - Regulatory Information

**US Classification and Label Text**  
**US Statements**  
Calif. Prop. 65 carcinogen & reproductive hazard. Caution: Avoid contact and inhalation.

**United States Regulatory Information**  
**SARA Listed:** No  
**Notes:** This product is subject to SARA section 313 reporting requirements - glycol ethers.

**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

## 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 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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

