

Material Safety Data Sheet

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 Version 1.7
 Regulation (EC) No 1907/2006

1 - Product and Company Information

Product Name IGEPAL CA-520
 Product Number 238570
 Company Sigma-Aldrich Pte Ltd
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2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
 Not hazardous according to Directive 67/548/EEC.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number	
IGEPAL CA-*	9036-19-5	None	None	
Ingredient Name	Percent	CAS #	EC no	Annex I Index Number
WATER	< 0.5	7732-18-5	231-791-2	None
ETHYLENE OXIDE Carc. Cat.2 Muta. Cat.2	< 0.0025	75-21-8	200-849-9	603-023-00-X
Symbols: F+-T				
R-Phrases: 45-46-12-23-36/37/38				
May cause cancer. May cause heritable genetic damage. Extremely flammable. Also toxic by inhalation. Irritating to eyes, respiratory system and skin.				
1,4-DIOXANE Carc. Cat.3	< 0.002	123-91-1	204-661-8	603-024-00-5
Symbols: F-Xn				
R-Phrases: 11-19-36/37-40-66				
Highly flammable. May form explosive peroxides. Irritating to eyes and respiratory system. Limited evidence of a carcinogenic effect. Repeated exposure may cause skin dryness or cracking.				
Formula	(C ₂ H ₄ O) _n ~C ₁₄ H ₂₂ O			
Synonyms	octylphenoxy poly(ethyleneoxy)ethanol, branched * ethoxylated octylphenol, branched * Poly(oxy-1,2-ethanediyl), alpha-(octylphenyl)- omega -hydroxy-, branched * Polyoxyethylene(*)octylphenyl ether, branched			

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

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

AFTER EYE CONTACT

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.

AFTER INGESTION

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

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam. Foam and water spray are effective but may cause frothing.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Physical State: Clear liquid Color: Faintly yellow Form: Viscous	
Property	Value	At Temperature or Pressure
pH	6.0 - 8.0	Concentration: 100 g/l
BP/BP Range	> 200 °C	760 mmHg
MP/MP Range	N/A	
Flash Point	> 93 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	< 0.01 mmHg	25 °C
SG/Density	1.04 g/cm ³	25 °C
Partition Coefficient	N/A	
Viscosity	0.008 - 0.010 Pas	100 °C
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water: Miscible.	

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

11 - Toxicological Information

ACUTE TOXICITY

LD50

Oral

Rat

3,800 mg/kg

SIGNS AND SYMPTOMS OF EXPOSURE

Diarrhea. Nausea.

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.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

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.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

Not hazardous according to Directive 67/548/EEC.

Caution: Substance not yet fully tested (EU).

COUNTRY SPECIFIC INFORMATION

Germany

WGK: No hazard to waters.
Self-Classification

16 - Other Information

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 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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