

# **Material Safety Data Sheet**

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Annex I Index

Number

## Section 1 - Product and Company Information

Product Name Product Number

Brand

Igepal® CO-520 238643 Aldrich Chemical

Sigma-Aldrich

Company Street Address

3050 Spruce Street SAINT LOUIS, MO 63103 US

City, State, Zip, Country Technical Phone: SAINT LOUIS, MO 63103 800-325-5832 800-325-5052

Emergency Phone:

**SARA 313** 

No

314-776-6555

EC no

# Section 2 - Composition/Information on Ingredient

Substance Name CAS #

IGEPAL CO-\* 68412-54-4

 Ingredient Name
 CAS #
 Percent
 SARA 313

 1,4-DIOXANE
 123-91-1
 < 0,003 %</td>
 Yes

 ETHYLENE OXIDE
 75-21-8
 < 0,000 %</td>
 Yes

Formula

(C2H4O)n-C15H24O

Synonyme Alkylphenol ethoxylate nonylphenoxy poly(ethyleneoxy)ethanol, branched ethoxylated 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(6)

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

#### Hendling

**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 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

рΗ

Physical State

Color

Clear viscous liquid

Coloriess

Molecular Weight:

ΝA 6 - B

N/A

> 200 °C

<u>Property</u> <u>Value</u> At Temperature or Pressure Other

760 mmHg

25 °C

100 °C

Concentration: 100 g/l

**BP/BP Range** MP/MP Range

Freezing Point N/A

Vapor Pressure < 0.01 mmHg

Vapor Density Saturated Vapor Conc. N/A

SG/Density 0.96 g/cm3 N/A

**Bulk Density Odor Threshold** N۸ Volatile% < 0.5 % **VOC Content** N/A Water Content NΑ

Solvent Content N/A **Evaporation Rate** N/A

Viscosity 0.012 - 0.014 Pas Partition Coefficient N/A Decomposition Temp.

NΑ 212 °F 100 °C

Method, closed cup Method: closed cup

**Explosion Limits** N/A

Flammability N/A **Autoignition Temp** N/A Refractive Index Solubility

Solubility in Water: Soluble.

N/A = not available

Flash Point °F

Flash Point °C

## 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.

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## 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 tract. May be harmful if inhaled.

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

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

Lepomls 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

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.

UN#: 3082

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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

## **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

## Section 16 - Other Information

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

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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