

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Product Number Brand Aliquat® 336 205613 Aldrich Chemical

Company Street Address

Sigma-Aldrich ss 3050 Spruce Street

City, State, Zip, Country Technical Phone: SAINT LOUIS, MO 63103 US

800-325-5832 800-325-5052 Emergency Phone:

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS#	SARA 313	EC no Annex I Index	
METHYLTRIOCTYLAMMONIUM CHLORIDE	63393-96-4	No	264-120-7 <u>Number</u>	
Ingredient Name METHYLTRIOCTYLAMMONIUM CHLORIDE	<u>CAS #</u> 63393-96-4	<u>Percent</u> >= 80.000 % <= 90.000 %	SARA 313	
IMPURITIES: 1-DECANOL 1-OCTANOL	112-30-1 111-87-5	< 6.000 % < 5.000 %	No	

Formula

C25H54CLN

Synonyms

Adogen 464, Aliquat 7402, Aliquat N 263, Aliquat 336, Aliquat 336S, Disperstat A, Disperstat W

Section 3 - Hazards Identification

Emergency Overview

Toxic (USA) Harmful (EU). Dangerous for the environment.

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Target organ(s): Liver. Nerves.

HMIS Rating Health: 2*

Flammability: 1

Reactivity: 1

NFPA Rating

Health: 2

Flammability: 1

Reactivity: 1

*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.

ve 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:

235 °F

113 °C

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

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, 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.

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Storage

Suitable

Keep tightly closed

Special Requirements

Hygroscopic.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

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 AXBEK (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.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Liquid

Molecular Weight: 404.17 AMU

N/A N/A BP/BP Range N/A MP/MP Range Freezing Point N/A Vapor Pressure N/A **Vapor Density** N/A Saturated Vapor Conc. N/A SG/Density 0.884 g/cm3 **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content <= 5 % Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A

N/A

235 °F 113 °C Method: closed cup Method: closed cup

Explosion Limits N/A

Decomposition Temp.

Flash Point °F

Flash Point °C

Flammability N/A
Autoignition Temp N/A
Refractive Index 1.4665

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Sigma-Aldrich Corporation www.sigma-aldrich.com Solubility

N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Conditions to Avoid

Moisture

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.

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

Causes severe eye irritation.

Inhalation

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

Ingestion

Harmful if swallowed

Target Organ(s) or System(s)

Kidneys. Liver. Nerves.

Signs and Symptoms of Exposure

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Exposure can cause: Narcotic effect. Nausea, headache, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: UZ2997500

Toxicity Data

Oral - Rat: 223 mg/kg(LD50)

Section 12 - Ecological Information

Acute Ecotoxicity Tests

Test Type

EC50 Daphnia

Species

Daphnia magna

Time:

48.0 h 0.01 - 0.04 mg/l

Value:

Test Type LC50 Fish

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Time: 96.0 h

0.18 - 0.32 mg/l

Elimination

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: Toxic, liquids, organic, n.o.s.

UN#: 2810 Class: 6.1

Packing Group: Packing Group III Hazard Label: Toxic substances.

PIH: Not PIH

IATA

Proper Shipping Name: Toxic liquid, organic, n.o.s.

IATA UN Number: 2810 Hazard Class: 6.1 Packing Group: III

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn N

Indication of Danger

Harmful. Dangerous for the environment.

Risk Statements R: 22 38 41 50/53

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Statements

S: 26 39 60 61

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

US Classification and Label Text

Indication of Danger

Toxic (USA) Harmful (EU). Dangerous for the environment.

Risk Statements

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

US Statements

Target organ(s): Liver. Nerves.

United States Regulatory Information

SARA Listed: No

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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.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a quide. 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 quarantee 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 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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