# Otto Chemie Pvt Ltd

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#### MATERIAL DATA SAFETY SHEET

Product Name Aliquatt 336

Cat No. : A 1620

Synonyms Methyltrioctylammonium chloride, Tricaprylylmethylammonium chloride; n-methyl-n,n-dioct

# 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label Elements** 

Signal Word

Danger

Hazard Statements

Toxic if swallowed

Causes severe skin burns and eye damage

Acute oral toxicity Category 3

Skin Corrosion/Irritation Category 1 C

Serious Eye Damage/Eye Irritation Category 1

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

May cause respiratory irritation

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

SKIN

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component CAS-No Weight %

Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides

63393-96-4 >75

1-Octanol 111-87-5 2-7

1-Decanol 112-30-1 3-7

## 4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required. Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 132 °C / 269.6 °F

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors. NFPA

### 6 Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

Handling Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Health

Flammability

Instability

Storage Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

#### 9. Physical and chemical properties Physical State Viscous liquid Liquid Appearance Amber Odor Ammonia-like Odor Threshold No information available pH 3.5 (@ 25 ) 100 g/l water (25°C) Melting Point/Range No data available

Boiling Point/Range No information available

Flash Point 132 °C / 269.6 °F Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density No information available

Specific Gravity 0.880

Solubility Insoluble in water

Partition coefficient: n-octanol/water No data available

Autoignition Temperature No information available

Decomposition Temperature No information available

Viscosity 1450 mPa.s at 30 °C

Molecular Weight 442

### 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Conditions to Avoid Heat, flames and sparks. Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Category 3. ATE = 50 - 300 mg/kg.

Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component LD50 Oral LD50 Dermal LC50 Inhalation

Quaternary ammonium compounds,

tri-C8- 10-alkylmethyl, chlorides 300-2000 mg/kg

223 mg/kg (Rat)

Not listed Not listed

1-Octanol LD50 > 3200 mg/kg (Rat) LD50 > 5 g/kg (Rabbit) Not listed

1-Decanol LD50 = 4720 mg/kg ( Rat ) LD50 = 3560 mg/kg ( Rabbit ) Not listed

Toxicologically Synergistic

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component CAS-No IARC NTP ACGIH OSHA Mexico

Quaternary ammonium

compounds, tri-C8-10-alkylmethyl,

chlorides

63393-96-4 Not listed Not listed Not listed Not listed Not listed

1-Octanol 111-87-5 Not listed Not listed Not listed Not listed Not listed

1-Decanol 112-30-1 Not listed Not listed Not listed Not listed Not listed

Mutagenic Effects No information available

Reproductive Effects Contains ingredients that are suspected reproductive hazards.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and

delayed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available

#### 12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component Freshwater Algae Freshwater Fish Microtox Water Flea

Quaternary ammonium

compounds, tri-C8-10-alkylmethyl, chlorides

Not listed LC50: 0.1-1 mg/L 96h Not listed EC50: 0.16 mg/L 48h

(Daphnia magna)

1-Octanol EC50: = 14 mg/L, 48h static

(Desmodesmus

subspicatus)

LC50: 17.68 mg/L, 96h static

(Oncorhynchus mykiss)

LC50: 11.4 - 12.9 mg/L, 96h

flow-through (Pimephales

promelas)

EC50 = 32.7 - 51.1 mg/L 48

EC50 = 3.4 mg/L 5 min

EC50 = 3.71 mg/L 30 min

EC50 = 4.73 mg/L 15 min

EC50: 15 - 26 mg/L, 24h

(Daphnia magna)
1-Decanol Not listed Pimephales promelas:

LC50=2.2-2.5 mg/L 96h

EC50 = 1.31 mg/L 5 min

EC50 = 1.47 mg/L 30 min

EC50 = 8.83 mg/L 48 h EC50: 11 mg/L, 24h

(Daphnia magna)

EC50: 3 mg/L, 48h (Daphnia

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Insoluble in water Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility.

Component log Pow

Quaternary ammonium compounds, tri-C8- 10-alkylmethyl, chlorides 6.13

1-Octanol 2.8

1-Decanol 4.11

#### 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### 14. Transport information

DOT

**UN-No UN2922** 

Proper Shipping Name Corrosive liquid, toxic, n.o.s.

Technical Name Quaternary ammonium compounds, tri-C8- 10-alkylmethyl, chlorides

Hazard Class 8

Subsidiary Hazard Class 6.1

Packing Group III

**TDG** 

UN-No UN2922

Proper Shipping Name Corrosive liquid, toxic, n.o.s.

Hazard Class 8

Subsidiary Hazard Class 6.1

Packing Group III

IATA

UN-No UN2922

Proper Shipping Name Corrosive liquid, toxic, n.o.s.

Hazard Class 8

Subsidiary Hazard Class 6.1

Packing Group III

IMDG/IMO

UN-No UN2922

Proper Shipping Name Corrosive liquid, toxic, n.o.s.

Hazard Class 8

Subsidiary Hazard Class 6.1

Packing Group III

#### 15. Regulatory information

United States of America Inventory

Component CAS-No TSCA TSCA Inventory notification -Active/Inactive

TSCA - EPA Regulatory

Flags

Quaternary ammonium

compounds, tri-C8- 10-alkylmethyl,

63393-96-4 X ACTIVE -1-Octanol 111-87-5 X ACTIVE -1-Decanol 112-30-1 X ACTIVE Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component CAS-No DSL NDSL EINECS PICCS ENCS AICS IECSC KECL

Quaternary ammonium

compounds, tri-C8- 10-alkylmethyl,

chlorides

63393-96-4 X - 264-120-7 X - X X KE-30035

1-Octanol 111-87-5 X - 203-917-6 X X X X KE-26656

1-Decanol 112-30-1 X - 203-956-9 X X X X KE-09483

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Regulations

Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island

1-Octanol

- - X - X

1-Decanol - - X - X

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of

the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.