Sigma-Aldrich.

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 8.1 Revision Date 16.10.2024 Print Date 17.10.2024 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

#### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name :		Aliquat® 336	
	Product Number Brand REACH No.	:	205613 Aldrich This product is a mixture. REACH Registration Number see section 3.	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemicals, Manufacture of substances
Uses advised against	For R&D use only. Not for pharmaceutical, household or other
	uses.

## **1.3** Details of the supplier of the safety data sheet

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Company

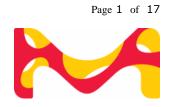
#### 1.4 Emergency telephone

Emergency Phone # : +(44)-870-8200418 (CHEMTREC (GB)) +(353)-19014670 (CHEMTREC Ireland) 001-803-017-9114 (CHEMTREC India)

## **SECTION 2: Hazards identification**

2.1	<b>Classification of the substance or</b> Acute toxicity, (Category 3)	<b>mixture</b> H301: Toxic if swallowed.		
1C) (		H314: Causes severe skin burns and eye damage.		
		H318: Causes serious eye damage.		
	Reproductive toxicity, (Category 1B)	H360FD: May damage fertility. May damage the unborn child.		
	Specific target organ toxicity - repeated exposure, (Category 2), Heart	H373: May cause damage to organs through prolonged or repeated exposure if swallowed.		

Aldrich- 205613



Short-term (acute) aquatic hazard, (Category 1)

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long

Long-term (chronic) aquatic hazard, (Category 1)

#### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram			
Signal Word	Danger		
Hazard Statements H301 H314 H360FD H373	Toxic if swallowed. Causes severe skin burns and eye damage. May damage fertility. May damage the unborn child. May cause damage to organs (Heart) through prolonged or repeated exposure if swallowed.		
H410	Very toxic to aquatic life with long lasting effects.		
Precautionary Statements P202	Do not handle until all safety precautions have been read and understood.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.		
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.		
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Supplemental Hazard Statements	none		

lasting effects.

## Reduced Labeling (<= 125 ml)

Pictogram

25 ml)

	Signal Word	Danger
	Hazard Statements H301 H314 H360FD	Toxic if swallowed. Causes severe skin burns and eye damage. May damage fertility. May damage the unborn child.
	Precautionary Statements P202	Do not handle until all safety precautions have been read and understood.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable
h	- 205613	Page 2 of 17

Aldrich- 205613



	for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.

Supplemental Hazard none Statements

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Component		Classification	Concentration			
quaternary ammonium compound, tri-C <sub>8</sub> -C <sub>10</sub> -alkylmethyl, chloride						
CAS-No. EC-No.	63393-96-4 264-120-7 *	Acute Tox. 3; Skin Corr. 1C; Eye Dam. 1; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H314, H318, H361fd, H400, H410 M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 1	>= 70 - < 90 %			
1-octanol		·				
CAS-No. EC-No.	111-87-5 203-917-6	Eye Irrit. 2; Aquatic Chronic 3; H319, H412	>= 2.5 - < 10 %			
	*					
1-Decanol						
CAS-No. EC-No.	112-30-1 203-956-9 *	Eye Irrit. 2; Aquatic Chronic 3; H319, H412	>= 2.5 - < 10 %			
Amines, tri-C8-10	)-alkyl					
CAS-No. EC-No.	68814-95-9 272-347-8	Skin Irrit. 2; Eye Irrit. 2; Repr. 1B; STOT RE 1; Aquatic Chronic 2; H315,	>= 2.5 - < 10 %			

Aldrich- 205613

Page 3 of  $17\,$ 



*	H319, H360FD, H372, H411 M-Factor - Aquatic Acute: 1	

\*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

#### **General advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

## SECTION 5: Firefighting measures

## 5.1 Extinguishing media

**Suitable extinguishing media** Foam Carbon dioxide (CO2) Dry powder

**Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Combustible.

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Page 4 of 17

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental precautions** Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

#### **6.4 Reference to other sections** For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with workplace control parameters

#### 8.2 Exposure controls

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

protective clothing

#### **Respiratory protection**

required when vapours/aerosols are generated.

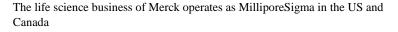
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Aldrich- 205613

Page 6 of 17





Do not let product enter drains.

## **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties

		yordar and enclinear properties
a)	Physical state	viscous, liquid
b)	Color	amber
c)	Odor	ammoniacal
d)	Melting point/freezing point	No data available
e)	Initial boiling point and boiling range	No data available
f)	Flammability (solid, gas)	No data available
g)	Upper/lower flammability or explosive limits	No data available
h)	Flash point	132 °C - ASTM D 56
i)	Autoignition temperature	No data available
j)	Decomposition temperature	No data available
k)	рН	No data available
I)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: 1,500.00 mPa.s at 30 °C
m)	Water solubility	at 25 °C practically insoluble
n)	Partition coefficient: n-octanol/water	No data available
o)	Vapor pressure	< 1 hPa
p)	Density	0.884 g/mL at 25 °C
	Relative density	No data available
q)	Relative vapor density	No data available
r)	Particle characteristics	No data available

- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none

## 9.2 Other safety information

Solubility in other Ethanol - soluble solvents

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Page 7 of 17

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

#### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** Strong heating.
- **10.5 Incompatible materials** Strong oxidizing agents, Strong acids and strong bases
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

#### Mixture

#### Acute toxicity

LD50 Oral - Rat - 223 mg/kg Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Dermal: No data available

## Skin corrosion/irritation

Remarks: Mixture causes burns.

#### Serious eye damage/eye irritation

Remarks: Mixture causes serious eye damage. Risk of blindness!

#### **Respiratory or skin sensitization**

No data available

Germ cell mutagenicity No data available

## Carcinogenicity

No data available

## **Reproductive toxicity**

May harm the unborn child. May impair fertility.

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

Mixture may cause damage to organs through prolonged or repeated exposure. - Heart

Aldrich- 205613

Page 8 of 17



## Aspiration hazard

No data available

## **11.2 Additional Information**

## Endocrine disrupting properties

#### Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

#### Components

#### quaternary ammonium compound, tri-C<sub>8</sub>-C<sub>10</sub>-alkylmethyl, chloride

#### Acute toxicity

Acute toxicity estimate Oral - 100.1 mg/kg (Expert judgment) Inhalation: No data available Dermal: No data available

#### Skin corrosion/irritation

Skin - Rabbit Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Remarks: No data available

#### **Respiratory or skin sensitization** No data available

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative Test Type: Micronucleus test Test system: Human lymphocytes Result: negative Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Result: negative

## Carcinogenicity

No data available

**Reproductive toxicity** Suspected of damaging the unborn child.

Aldrich- 205613

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Page 9 of 17



Suspected of damaging fertility.

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

#### 1-octanol

#### **Acute toxicity**

LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 2,000 - 4,000 mg/kg (OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: slight irritation - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes serious eye irritation. (OECD Test Guideline 405)

#### **Respiratory or skin sensitization**

Buehler Test - Guinea pig Result: negative (US-EPA)

#### Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Result: negative Test Type: Ames test Test system: Salmonella typhimurium Result: negative Method: OECD Test Guideline 474 Species: Mouse - male and female - Bone marrow Result: negative

#### Carcinogenicity

No data available

**Reproductive toxicity** No data available

Specific target organ toxicity - single exposure No data available

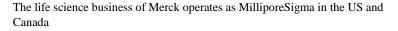
#### Specific target organ toxicity - repeated exposure

#### **Aspiration hazard**

No data available

Aldrich- 205613

Page 10 of 17





## 1-Decanol

#### **Acute toxicity**

LD50 Oral - Rat - female - > 5,000 mg/kg (US-EPA) LC50 Inhalation - Rat - male and female - 4 h - > 2.05 mg/l - vapor (US-EPA) Remarks: (highest concentration to be prepared) LD50 Dermal - Rat - male and female - > 5,000 mg/kg (US-EPA)

## Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (US-EPA)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Eye irritation (US-EPA)

#### **Respiratory or skin sensitization**

Buehler Test - Guinea pig Result: negative (US-EPA) Patch test: - Human Result: negative Remarks: (IUCLID)

## Germ cell mutagenicity

No data available Test Type: Ames test Result: negative Remarks: (Lit.)

#### Carcinogenicity

No data available

## **Reproductive toxicity**

No data available

#### Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

#### **Aspiration hazard**

No data available

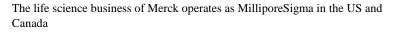
## Amines, tri-C8-10-alkyl

#### Acute toxicity

LD50 Oral - Rat - > 2,000 mg/kg (OECD Test Guideline 401) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: trioctylamine, n-

Aldrich- 205613

Page 11 of 17





Inhalation: No data available LD50 Dermal Dermal - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: Severe irritations (OECD Test Guideline 404) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: trioctylamine, n-The value is given in analogy to the following substances: Amines, tri-C8-10-alkyl

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: irritating (OECD Test Guideline 405) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: trioctylamine, n-The value is given in analogy to the following substances: Amines, tri-C8-10-alkyl

#### Respiratory or skin sensitization

Buehler Test - Guinea pig Result: negative (OECD Test Guideline 406)

#### Germ cell mutagenicity

No data available Test Type: Ames test Test system: Salmonella typhimurium Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Result: negative

#### Carcinogenicity

No data available

#### **Reproductive toxicity**

May damage the unborn child. May damage fertility.

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#### **Specific target organ toxicity - single exposure** No data available

#### Specific target organ toxicity - repeated exposure

Oral - Causes damage to organs through prolonged or repeated exposure. - Heart

#### Aspiration hazard

No data available

Aldrich- 205613

Canada

Page 12 of 17



## SECTION 12: Ecological information

#### **12.1 Toxicity**

**Mixture** No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties <u>Product:</u>

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

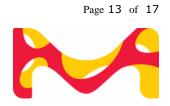
## 12.7 Other adverse effects

No data available

#### Components

<b>quaternary ammoniu</b> Toxicity to fish	m compound, tri-C <sub>8</sub> -C <sub>10</sub> -alkylmethyl, chloride static test LC50 - Danio rerio (zebra fish) - 0.15 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphni and other aquatic invertebrates	
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 0.29 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteri	<ul> <li>a static test EC50 - activated sludge - 18 mg/l - 3 h</li> <li>(OECD Test Guideline 209)</li> </ul>
<b>1-octanol</b> Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 13.3 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 48 h (OECD Test Guideline 201)
Toxicity to bacteri	a
Toxicity to	flow-through test NOEC - Pimephales promelas (fathead

Aldrich- 205613



	fish(Chronic toxicity)	minnow) - 0.26 mg/l - 33 d (OECD Test Guideline 210)
	Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 1 mg/l - 21 d (OECD Test Guideline 211)
1-De	<b>ecanol</b> Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 1 - 10 mg/l - 96 h (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3 mg/l - 48 h (DIN 38412)
	Toxicity to bacteria	EC0 - Pseudomonas putida - 10,000 mg/l - 30 min Remarks: (IUCLID)
	Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 0.26 mg/l - 28 d (OECD Test Guideline 210)
	Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	static test NOEC - Daphnia magna (Water flea) - 0.11 mg/l - 21 d (OECD Test Guideline 211)
Ami	nes, tri-C8-10-alkyl Toxicity to fish	static test LC50 - Fish - > 3.2 mg/l - 96 h Remarks: (ECHA) (in analogy to similar products) The value is given in analogy to the following substances: trioctylamine, n-
	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 55.7 mg/l - 48 h (OECD Test Guideline 202)
	Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - 17 mg/l - 72 h (Regulation (EC) No. 440/2008, Annex, C.3)
		static test EC10 - Desmodesmus subspicatus (green algae) - 0.226 mg/l - 72 h (Regulation (EC) No. 440/2008, Annex, C.3)
	Toxicity to bacteria	static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)
	Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 12.35 mg/l - 21 d (OECD Test Guideline 211)

Aldrich- 205613

Page 14 of 17



#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

No data available

## **SECTION 14: Transport information**

	JN numb DR/RID:		IMDG: 2922	IATA: 2922
A IN		C10-alkylmethyl, c CORROSIVE LIQUI C10-alkylmethyl, c	D, TOXIC, N.O.S. (quaternary a hloride) oxic, n.o.s. (quaternary ammoni	ammonium compound, tri-C8-
	ransport DR/RID:	t <b>hazard class(es</b> ) 8 (6.1)	IMDG: 8 (6.1)	IATA: 8 (6.1)
	<b>ackaging</b> DR/RID:		IMDG: II	IATA: II
	<b>nvironm</b> DR/RID:	<b>ental hazards</b> yes	IMDG Marine pollutant: yes	IATA: no
14.6 S	special pr	recautions for use	er	
F	Further inf	formation :	No data available	

#### **SECTION 15: Regulatory information**

# **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### National legislation

Seveso III: Directive 2012/18/EU of the H2 ACUTE TOXIC European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS

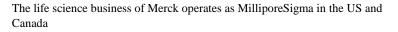
#### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

Aldrich- 205613

Page 15 of 17





#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements

H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. -Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (O)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Aldrich- 205613

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Page 16 of 17

## **Classification of the mixture**

Acute Tox.3	H301
Skin Corr.1C	H314
Eye Dam.1	H318
Repr.1B	H360FD
STOT RE2	H373
Aquatic Acute1	H400
Aquatic Chronic1	H410

## Classification procedure:

Based on product data or assessment Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

## **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Aldrich- 205613



Page 17 of 17