

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Version 6.9 Revision Date 10.06.2024 Print Date 30.04.2025

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 : EPA 552 Halogenated Acetic Acids Mix

Product Number : 48047 Brand : Supelco

REACH No. : 01-2119452786-27-XXXX

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapor.

Skin irritation, (Category 2) H315: Causes skin irritation.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Danger

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**Hazard Statements** 

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

**Precautionary Statements** 

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Supplemental Hazard

Statements

none

EUH208 Contains: bromoacetic acid. May produce an allergic reaction.

# Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Danger
Hazard Statements none
Precautionary Statements none
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	
tert-butyl methyl ether				
CAS-No.	1634-04-4	Flam. Liq. 2; Skin Irrit. 2;	>= 90 - <=	
EC-No.	216-653-1	H225, H315	100 %	

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-			T 1
Index-No.	603-181-00-X		
Registration	01-2119452786-27-		
number	XXXX		
Trichloracetic acid			
CAS-No.	76-03-9	Skin Corr. 1A; Eye Dam.	>= 0,1 - <
EC-No.	200-927-2	1; Aquatic Acute 1;	0,25 %
Index-No.	607-004-00-7	Aquatic Chronic 1; H314,	
Registration	01-2119485186-30-	H318, H400, H410	
number	XXXX	Concentration limits:	
		>= 1 %: STOT SE 3,	
		H335;	
bromoacetic acid			
CAS-No.	79-08-3	Acute Tox. 2; Acute Tox.	>= 0,1 - <
EC-No.	201-175-8	3; Skin Corr. 1A; Eye	0,25 %
Index-No.	607-065-00-X	Dam. 1; Skin Sens. 1;	0,25 76
Index No.	*	Aquatic Acute 1; H300,	
		H331, H311, H314, H318,	
		H317, H400	
		11317,11100	
chloroacetic acid			
CAS-No.	79-11-8	Acute Tox. 3; Skin Corr.	>= 0,1 - <
EC-No.	201-178-4	1B; Eye Dam. 1; STOT SE	0,25 %
Index-No.	607-003-00-1	3; Aquatic Acute 1; H301,	,
	*	H331, H311, H314, H318,	
		H335, H400	
		Concentration limits:	
		>= 5 %: STOT SE 3,	
7		H335;	
		M-Factor - Aquatic Acute:	
		10	
<b>Dichloroacetic Acid</b>			
CAS-No.	79-43-6	Met. Corr. 1; Acute Tox. 3;	- I
EC-No.	201-207-0	Skin Corr. 1A; Eye Dam.	0,25 %
Index-No.	607-066-00-5	1; Carc. 2; Repr. 1B; Lact.	
Registration	01-2120767065-52-	; STOT RE 2; Aquatic	
number	XXXX	Acute 1; H290, H311,	
		H314, H318, H351,	
		H360FD, H362, H373,	
		H400	

<sup>\*</sup>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.

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# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Consult doctor if feeling unwell.

#### In case of skin contact

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

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most).

# 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

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

#### 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

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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#### 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. Keep away from heat and sources of ignition. 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. Risk of explosion.

#### 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 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 protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **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

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

#### 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). Safety glasses

#### Skin protection

required

#### **Body Protection**

Flame retardant antistatic 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 AX

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.

#### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a) Physical state liquidb) Color No data availablec) Odor No data available

d) Melting No data available point/freezing point

e) Initial boiling point 55,0 - 56,0 °C and boiling range

f) Flammability (solid, No data available gas)

g) Upper/lower No data available flammability or explosive limits

h) Flash point -33,0 °C - closed cup

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i) Autoignition No data available

temperature

j) Decomposition No data available

temperature

k) pH No data available

I) Viscosity Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

m) Water solubility No data available

n) Partition coefficient: No data available

n-octanol/water

o) Vapor pressure No data available
 p) Density No data available
 Relative density No data available

q) Relative vapor No data available

density

r) Particle No data available

characteristics

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

# 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Vapors may form explosive mixture with air.

#### 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

Warming.

#### 10.5 Incompatible materials

Strong bases, Bases, Oxidizing agents, Strong oxidizing agents, Amines, Strong acids, Reducing agents, Strong reducing agents

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

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

# 11.1 Information on toxicological effects

#### **Mixture**

# **Acute toxicity**

Oral: No data available

Acute toxicity estimate Oral - > 2.000 mg/kg

(Calculation method)

Acute toxicity estimate Inhalation - 4 h - > 20 mg/l - vapor(Calculation method)

Acute toxicity estimate Dermal - > 2.000 mg/kg (Calculation method)

#### Skin corrosion/irritation

Remarks: Mixture causes skin irritation.

# Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

Mixture may produce an allergic reaction.

#### Germ cell mutagenicity

No data available

#### 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

#### 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

2018/605 at levels of 0.1% or higher.

Dizziness, Central nervous system depression, Aspiration or inhalation may cause chemical pneumonitis., MTBE (methyl-tert-butyl ether) is reported to metabolize to tert-butyl alcohol and formaldehyde by microsomal demethylation, MTBE (methyl-tert-butyl ether) should be considered a "potential human carcinogen" due to an increase in leydig interstitial cell tumors of testes in male rats and an increase in lymphomas, leukemias, and uterine

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sarcomas in female rats., In another unpublished study MTBE was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

#### **Components**

#### tert-butyl methyl ether

#### **Acute toxicity**

LD50 Oral - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 401)

Symptoms: Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit.,

Aspiration may cause pulmonary edema and pneumonitis.

LC50 Inhalation - Rat - male and female - 4 h - 85 mg/l - vapor

(OECD Test Guideline 403)

Symptoms: Possible damages:, mucosal irritations LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit

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

Remarks: Drying-out effect resulting in rough and chapped skin.

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

## Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

#### **Germ cell mutagenicity**

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Result: negative Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: Mutagenicity (mammal cell test): micronucleus.

Test system: mouse lymphoma cells

Result: negative

Method: OECD Test Guideline 486

Species: Mouse - male and female - Liver cells

Result: negative Method: US-EPA

Species: Mouse - male and female - Bone marrow

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Result: negative Method: US-EPA

Species: Rat - male and female - Bone marrow

Result: negative

Method: OECD Test Guideline 488 Species: Rat - male - Bone marrow

Result: negative

Carcinogenicity

No data available

# Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

Acute oral toxicity - Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit., Aspiration may cause pulmonary edema and pneumonitis. Acute inhalation toxicity - Possible damages:, mucosal irritations

# Specific target organ toxicity - repeated exposure

#### **Aspiration hazard**

No data available

#### **Trichloracetic acid**

#### **Acute toxicity**

LD50 Oral - Rat - 3.320 mg/kg

Remarks: (IUCLID)

Inhalation: No data available Dermal: No data available

# Skin corrosion/irritation

Remarks: Causes severe burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

# Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

#### Germ cell mutagenicity

In vivo tests did not show mutagenic effects

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: Positive results were obtained in some in vitro tests.

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Result: positive

Method: OECD Test Guideline 474

Species: Mouse - male and female - Bone marrow

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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

No data available

#### **Aspiration hazard**

No data available

#### bromoacetic acid

#### **Acute toxicity**

LD50 Oral - Rat - 50 mg/kg

Remarks: (RTECS)

Behavioral: Somnolence (general depressed activity).

Behavioral: Rigidity (includes catalepsy).

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute toxicity estimate Oral - 50 mg/kg (ATE value derived from LD50/LC50 value)

Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute toxicity estimate Dermal - 300,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

# Skin corrosion/irritation

Remarks: Causes severe burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Serious eye damage/eye irritation

Eyes - Chicken eye

Result: Causes serious eye damage. - 10 s

(OECD Test Guideline 438)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: positive

(OECD Test Guideline 406)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

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#### Germ cell mutagenicity

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Result: positive

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Result: negative Test Type: Ames test

Test system: S. typhimurium

Result: negative

Method: OECD Test Guideline 475

Species: Rat - male and female - Bone marrow

Result: negative **Carcinogenicity** 

No data available

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

### Specific target organ toxicity - repeated exposure

# **Aspiration hazard**

No data available

#### chloroacetic acid

#### **Acute toxicity**

LD50 Oral - Rat - female - 90,4 mg/kg

(OECD Test Guideline 401)

Acute toxicity estimate Oral - 90,4 mg/kg

(Calculation method)

LC50 Inhalation - Rat - male and female - 4 h - > 1,268 mg/l - dust/mist

(OECD Test Guideline 403)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

LD50 Dermal - Rat - female - 305 mg/kg

(OECD Test Guideline 402)

Acute toxicity estimate Dermal - 305 mg/kg

(Calculation method)

#### Skin corrosion/irritation

Skin - Rabbit

Result: Corrosive - 24 h

Remarks: (ECHA)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irreversible effects on the eye Remarks: Causes serious eye damage.

(ECHA)

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#### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: Not a skin sensitizer. (OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Result: negative Remarks: (ECHA) Species: Mouse - male Result: negative Remarks: (ECHA)

# Carcinogenicity

No data available

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory Tract

# Specific target organ toxicity - repeated exposure

# **Aspiration hazard**

No data available

#### **Dichloroacetic Acid**

#### **Acute toxicity**

LD50 Oral - Rat - 2.820 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - 797 mg/kg

Remarks: (ECHA)

Acute toxicity estimate Dermal - 797 mg/kg (ATE value derived from LD50/LC50 value)

# Skin corrosion/irritation

Skin - Rabbit

Result: Causes severe burns. Remarks: Causes skin burns.

Remarks: (RTECS)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye damage. Remarks: Causes serious eye damage.

Remarks: (RTECS)

#### Respiratory or skin sensitization

No data available

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#### Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Result: negative

Species: Mouse - male - Liver cells

Result: negative Remarks: (ECHA)

Method: OECD Test Guideline 475

Species: Rat - male and female - Bone marrow

Result: negative **Carcinogenicity** 

Suspected of causing cancer.

# **Reproductive toxicity**

May damage the unborn child.

May damage fertility. Studies indicating a hazard to babies during the lactation period

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

Oral - May cause damage to organs through prolonged or repeated exposure.

- Brain, Liver, Testes

# **Aspiration hazard**

No data available

#### **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.

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# 12.6 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.

#### 12.7 Other adverse effects

No data available

#### **Components**

#### tert-butyl methyl ether

Toxicity to fish semi-static test LC50 - Menidia beryllina - 574 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic

flow-through test EC50 - Americamysis bahia (Mysid) - 187

mg/l - 96 h

invertebrates

(US-EPA OPPTS 850.1035)

Toxicity to algae static test IC50 - Pseudokirchneriella subcapitata (green algae)

- 491 mg/l - 96 h

Toxicity to bacteria static test EC10 - Pseudomonas putida - 710 mg/l - 18 h

Remarks: (ECHA)

Toxicity to

fish(Chronic toxicity)

flow-through test NOEC - Pimephales promelas (fathead

minnow) - 299 mg/l - 31 d

Remarks: (ECHA)

flow-through test NOEC - Pimephales promelas (fathead

minnow) - 450 mg/l - 31 d

Remarks: (ECHA)

Toxicity to daphnia and other aquatic

flow-through test NOEC - Daphnia magna (Water flea) - 51

mg/l - 21 d

invertebrates(Chronic (OPPTS 850.1300)

toxicity)

#### **Trichloracetic acid**

No data available

bromoacetic acid

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 103 mg/l - 96

h

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 42 mg/l - 48 h

(OECD Test Guideline 202)

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Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - 0,29 mg/l -

96 h

(OECD Test Guideline 201)

Toxicity to bacteria EC50 - activated sludge - > 1.000 mg/l - 3 h

(OECD Test Guideline 209)

NOEC - activated sludge - 320 mg/l - 3 h

(OECD Test Guideline 209)

Toxicity to semi-static test NOEC - Danio rerio (zebra fish) - >= 100 mg/l

fish(Chronic toxicity) - 28 d

(OECD Test Guideline 215)

Toxicity to daphnia semi-static test NOEC - Daphnia magna (Water flea) - 3,2 mg/l

and other aquatic - 21 d

invertebrates(Chronic Remarks: (ECHA)

toxicity)

chloroacetic acid

Toxicity to fish static test LC50 - Poecilia reticulata (guppy) - 369 mg/l - 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic

nia static test EC50 - Daphnia magna (Water flea) - 74,2 mg/l - 48

h

invertebrates (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) -

0,033 mg/l - 72 h

(OECD Test Guideline 201)

static test NOEC - Desmodesmus subspicatus (green algae) -

0,006 mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to semi-static test NOEC - Danio rerio (zebra fish) - < 25 mg/l -

fish(Chronic toxicity) 35 d

(OECD Test Guideline 210)

Toxicity to daphnia semi-static test NOEC - Daphnia magna (Water flea) - 32 mg/l

and other aquatic

aquatic - 21 d

invertebrates(Chronic Remarks: (ECHA)

toxicity)

**Dichloroacetic Acid** 

No data available

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

No data available

## **SECTION 14: Transport information**

14.1 UN number

ADR/RID: 2398 IMDG: 2398 IATA: 2398

14.2 UN proper shipping name

ADR/RID: METHYL tert-BUTYL ETHER IMDG: METHYL tert-BUTYL ETHER IATA: Methyl tert-butyl ether

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : 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.

#### Authorisations and/or restrictions on use

#### **National legislation**

Seveso III: Directive 2012/18/EU of the P5c FLAMMABLE LIQUIDS European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

#### Other regulations

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

#### 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**

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H225	Highly flammable liquid and vapor.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause 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.
EUH071	Corrosive to the respiratory tract.

# CHEMIKART

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#### 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; (Q)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

Classification of the mixture		Classification procedure:
Flam. Liq.2	H225	Based on product data or assessment
Skin Irrit.2	H315	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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