

Emergency Phone # : +33 (0)9 75 18 14 07 (CHEMTREC) +33 (0)1 45 42 59 59 (I.N.R.S.)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.2 Label elements

Labelling according Regu Pictogram	<pre>Jlation (EC) No 1272/2008 none</pre>
Signal Word	none
Hazard Statements	none
Precautionary Statements	none

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Supplemental Hazard Statements	none
EUH210 EUH208	Safety data sheet available on request. Contains: Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1). May produce an allergic reaction.

# 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**

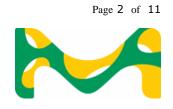
#### 3.2 Mixtures

Component		Classification	Concentration
Mixture of 5-Chlord one (3:1)	o-2-methyl-4-isothiaz	olin-3-one and 2-Methyl-2H -i	sothiazol-3-
CAS-No. EC-No. Index-No.	55965-84-9 911-418-6 613-167-00-5 *	Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: >= 0,6 %: Skin Corr. 1C, H314; 0,06 - < 0,6 %: Skin Irrit. 2, H315; 0,06 - < 0,6 %: Eye Irrit. 2, H319; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,6 %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100	< 0,0015 %

\*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.

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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

#### 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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known. Not combustible. Ambient fire may liberate hazardous vapours.

#### 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

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.

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# 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 with liquid-absorbent and neutralising material (e.g. Chemizorb® H<sup>+</sup>, Merck Art. No. 101595). 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** For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed.

Recommended storage temperature see product label.

#### Storage class

Storage class (TRGS 510): 12: Non Combustible Liquids

# 7.3 Specific end use(s)

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

# 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**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

#### **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.

#### **Control of environmental exposure**

Do not let product enter drains.

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

a)	Physical state	liquid
b)	Color	red
c)	Odor	odorless
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	Not applicable
i)	Autoignition temperature	Not applicable
j)	Decomposition temperature	No data available
k)	рН	4,0 at 25 °C
I)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m)	Water solubility	at 20 °C soluble

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- n) Partition coefficient: No data available n-octanol/water
- o) Vapor pressure No data available
- p) Density ca.1,00 g/cm3 at 20 °C
   Relative density No data available
   q) Relative vapor density No data available
- 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**

No data available

# **10.2 Chemical stability**

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

# **10.3** Possibility of hazardous reactions

Violent reactions possible with: The generally known reaction partners of water.

# **10.4** Conditions to avoid

no information available

- **10.5 Incompatible materials** No data available
- **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

Oral: No data available Inhalation: No data available Dermal: No data available

#### Skin corrosion/irritation No data available

# Serious eye damage/eye irritation

No data available

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# Respiratory or skin sensitization

Mixture may produce an allergic reaction.

#### Germ cell mutagenicity No data available

#### **Carcinogenicity** No data available

NO Gala 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.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

# Components

# Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

#### Acute toxicity

LD50 Oral - Rat - male and female - 66 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - 0,171 mg/l - aerosol (OECD Test Guideline 403) LD50 Dermal - Rabbit - male - 87,12 mg/kg Remarks: (ECHA)

#### 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. (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes serious eye damage. Remarks: (ECHA)

# **Respiratory or skin sensitization** Maximization Test - Guinea pig

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Result: positive (OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Result: positive Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: positive Test Type: Ames test Test system: Salmonella typhimurium Result: Positive results were obtained in some in vitro tests. Test Type: UDS (Unscheduled DNA synthesis assay) Test system: rat hepatocytes Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Result: positive Method: OECD Test Guideline 475 Species: Mouse - male and female - Bone marrow Result: negative Method: OECD Test Guideline 486 Species: Rat - male - Liver cells Result: negative Method: US-EPA Species: Mouse - male and female - Bone marrow Result: negative Method: US-EPA Species: Rat - male - Liver cells Result: negative Method: OECD Test Guideline 474 Species: Mouse - male and female - Red blood cells (erythrocytes) 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

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Mixture No data available

#### 12.2 Persistence and degradability No data available

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# 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

# Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

(3.1)	
Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 0,19 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	flow-through test LC50 - Daphnia magna (Water flea) - 0,18 mg/l - 48 h (US-EPA)
Toxicity to bacteria	static test EC50 - activated sludge - 4,5 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to fish(Chronic toxicity)	semi-static test NOEC - Oncorhynchus mykiss (rainbow trout) - 0,098 mg/l - 35 d (OECD Test Guideline 215)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 0,1 mg/l - 21 d (US-EPA)

# SECTION 13: Disposal considerations

**13.1 Waste treatment methods** 

No data available

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SECTION 14: Transport information				
14.1	<b>UN numb</b> ADR/RID:		IMDG: -	IATA: -
14.2	ADR/RID: IMDG:	r shipping name Not dangerous goo Not dangerous goo Not dangerous goo	ds	
14.3	Transport ADR/RID:	t hazard class(es) -	IMDG: -	IATA: -
14.4	<b>Packagin</b> ADR/RID:		IMDG: -	IATA: -
14.5	<b>Environm</b> ADR/RID:	no no	IMDG Marine pollutant: no	IATA: no
14.6	No data av Further in	nformation	r the meaning of transport regul	ations.

# **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

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#### **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.
H310	Fatal 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
EUH071	Corrosive to the respiratory tract.

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Canada

# 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

# **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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