

#### **Safety Data Sheet**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

#### **BIOSCUD TRAFFIC**

Date of first edition: 8/10/2021 Safety Data Sheet dated 26/06/2025

version 3

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

#### 1.1. Product identifier

Mixture identification:

Trade name: BIOSCUD TRAFFIC

Trade code: 19072019

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

Recommended use: primer

Uses advised against: All uses other than recommended ones **1.3. Details of the supplier of the safety data sheet** 

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

#### 1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre,

Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

#### **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of container in accordance with international regulation.

#### **Special Provisions:**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1). May produce an allergic reaction.

#### Dir. 2004/42/EC (VOC directive)

One-pack performance coatings

EU limit value for this product (cat. A/i): 140 g/l

This product contains max 0 g/l VOC.

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

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

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: BIOSCUD TRAFFIC

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥5-<10 %	Quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
≥0.20- <0.25 %	zinc oxide	CAS:1314-13-2 EC:215-222-5 Index:030-013-00-7	Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1	01-2119463881-32
<0.036 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	EC:220-120-9	Acute Tox. 2, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1  Specific Concentration Limits: $C \ge 0.036\%$ : Skin Sens. 1A H317	01-2120761540-60
<0.0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071  Specific Concentration Limits: $C \ge 0.6\%$ : Skin Corr. 1C H314 $0.06\% \le C < 0.6\%$ : Skin Irrit. 2 H315 $C \ge 0.6\%$ : Eye Dam. 1 H318 $0.06\% \le C < 0.6\%$ : Eye Irrit. 2 H319 $C \ge 0.0015\%$ : Skin Sens. 1A H317	

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

#### 4.3. Indication of any immediate medical attention and special treatment needed

N.A.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### For emergency responders:

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### Advice on general occupational hygiene:

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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

#### 8.1. Control parameters

#### **Community Occupational Exposure Limits (OEL)**

**OEL Type Country Occupational Exposure Limit** Long Term: 0.1 mg/m3

Quartz CAS: 14808-60-7

Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung

cancer. Directive 2017/2398

**ACGIH** Long Term: 0.025 mg/m3 (8h)

R, A2 - Pulm fibrosis, lung cancer

NATIONAL HUNGARY Long Term: 0.1 mg/m3 (8h)

Respirable aerosol

Source: 5/2020. (II. 6.) ITM rendelet

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Long Term: 0.1 mg/m3 (8h) NATIONAL IRELAND

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3 (8h)

Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008

Source: D.lgs. 81/2008, Allegato XLIII

NATIONAL SPAIN Long Term: 0.05 mg/m3 (8h)

Respirable fraction Source: LEP 2022

Long Term: 0.1 mg/m3 NATIONAL CROATIA

Source: NN 1/2021

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

MAK, III C, A

Source: BGBl. II Nr. 156/2021

NATIONAL BELGIUM Long Term: 0.1 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

Long Term: 0.3 mg/m3 NATIONAL DENMARK

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

1, C

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiūrėti 1 priedo 3 punktą.

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

**NATIONAL** NETHERLAND Long Term: 0.075 mg/m3 S

(2) Source: Arbeidsomstandighedenregeling - Lijst B1

NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

Source: Dz.U. 2018 poz. 1286

NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

**SUVA** SWITZERLAN Long Term: 0.15 mg/m3

TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH

**OSHA** 

Source: suva.ch/valeurs-limites

Long Term: 2 mg/m3 (8h); Short Term: 10 mg/m3 zinc oxide **ACGIH** CAS: 1314-13-2

R - Metal fume fever

NATIONAL AUSTRIA Long Term: 5 mg/m3

MAK. A

Source: BGBl. II Nr. 156/2021

Long Term: 5 mg/m3; Short Term: 10 mg/m3 NATIONAL BULGARIA

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

30/06/2025 **BIOSCUD TRAFFIC** Date Production Name Page n. 4 of NATIONAL CZECHIA Long Term: 2 mg/m3; Short Term: Ceiling - 5 mg/m3

Source: Nařízení vlády č. 361-2007 Sb

Long Term: 4 mg/m3 NATIONAL DENMARK

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 5 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 2 mg/m3; Short Term: 10 mg/m3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 5 mg/m3

Source: INRS outil65

NATIONAL FRANCE Long Term: 10 mg/m3

Source: INRS outil65

Long Term: 5 mg/m3; Short Term: 10 mg/m3 NATIONAL GREECE

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL HUNGARY Long Term: 5 mg/m3

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL HUNGARY Long Term: 5 mg/m3

i, R

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LATVIA Long Term: 0.5 mg/m3

Source: KN325P1

NATIONAL LITHUANIA Long Term: 5 mg/m3

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

Long Term: 5 mg/m3 NATIONAL NORWAY

Source: FOR-2021-06-28-2248

Long Term: 5 mg/m3; Short Term: 10 mg/m3 NATIONAL POLAND

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 1 mg/m3; Short Term: 1 mg/m3

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 5 mg/m3

Source: AFS 2021:3

SWITZERLAN Long Term: 3 mg/m3; Short Term: 3 mg/m3 **SUVA** 

D TWA mg/m3: (a), Fimétal / Metallrauch, NIOSH OSHA

Source: suva.ch/valeurs-limites

NATIONAL BELGIUM Long Term: 2 mg/m3; Short Term: 10 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 2 mg/m3; Short Term: 10 mg/m3

GVI: R

Source: NN 1/2021

NATIONAL IRELAND Long Term: 2 mg/m3; Short Term: 10 mg/m3

> OEL (8-hour reference period): R Source: 2021 Code of Practice

NATIONAL ROMANIA Long Term: 5 mg/m3; Short Term: 10 mg/m3

(Fumuri)

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SPAIN Long Term: 2 mg/m3; Short Term: 10 mg/m3

Source: LEP 2022

methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-

3-one (3:1) CAS: 55965-84-9

reaction mass of 5-chloro-2- NATIONAL GERMANY

Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3 DFG; Long term and short term: inhalable fraction

Source: TRGS900

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

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MAK, Sh

Source: GKV, BGBI. II Nr. 156/2021

SUVA SWITZERLAN Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

TWA mg/m3: (i), S, SSC, VRS Peau Yeux / OAW Haut Auge

Source: suva.ch/valeurs-limites

#### Predicted No Effect Concentration (PNEC) values

1,2-benzisothiazol-3(2H)- Exposure Route: Fresh Water; PNEC Limit: 4.03 μg/l

one; 1,2-benzisothiazolin-

3-one

CAS: 2634-33-5

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.1 µg/l

Exposure Route: Marine water; PNEC Limit: 403 ng/L

Exposure Route: Intermittent releases (marine water); PNEC Limit: 110 ng/L Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.03 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 49.9 µg/kg Exposure Route: Marine water sediments; PNEC Limit: 4.99 µg/kg

Exposure Route: Soil; PNEC Limit: 3 mg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3-

one (3:1) CAS: 55965-84-9

Exposure Route: Intermittent releases (fresh water); PNEC Limit:  $3.39~\mu g/I$ 

Exposure Route: Marine water; PNEC Limit: 3.39 µg/l

Exposure Route: Fresh Water; PNEC Limit: 3.39 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39  $\mu$ g/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 230  $\mu$ g/l

Exposure Route: Freshwater sediments; PNEC Limit: 27  $\mu$ g/l Exposure Route: Marine water sediments; PNEC Limit: 27  $\mu$ g/l

Exposure Route: Soil; PNEC Limit: 10 µg/l

#### **Derived No Effect Level (DNEL) values**

1,2-benzisothiazol-3(2H)- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

one; 1,2-benzisothiazolin- Worker Professional: 6.81 mg/m³; Consumer: 1.2 mg/m³ 3-one

CAS: 2634-33-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 966 μg/kg; Consumer: 345 μg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3-

one (3:1) CAS: 55965-84-9 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 20 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 40 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 90 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 110 µg/kg

#### 8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Nitrile rubber .

Respiratory protection:

N.A.

Thermal Hazards:

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Prevent the product from entering sewers or surface and underground water.

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

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

Physical state: Liquid

Colour: Grey

Odour: Characteristic Odour threshold: N.A.

pH: =8.50

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: 100 °C (212 °F)

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 1.40 g/cm3

Solubility in water: Miscible Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0 %; 0 g/l

**Particle characteristics:** 

Particle size: N.A. **9.2. Other information** 

No other relevant information

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

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Data not available.

#### 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

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

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Toxicological Information of the Preparation**

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

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Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

Quartz a) acute toxicity LD50 Oral > 2000 mg/kg

zinc oxide a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LC50 Inhalation Rat > 5.7 mg/l 4h LD50 Skin Rat > 2000 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye damage/irritation Eye Irritant Rabbit No

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Negative

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 7.2

mg/kg

1,2-benzisothiazol-3(2H)- a) acute toxicity

one; 1,2-benzisothiazolin-

3-one

LD50 Oral Rat = 670 mg/kg

LD50 Skin Rat > 2000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

c) serious eye damage/irritation Eye Corrosive Positive

irreversible damage

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Positive

f) carcinogenicity Genotoxicity Rat Negative

Oral route

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 112

mg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1) a) acute toxicity LD50 Oral Rat = 69 mg/kg

LD50 Skin Rabbit = 141 mg/kg

LC50 Inhalation Rat = 0.33 mg/l 4h

b) skin corrosion/irritation Skin Irritant Rabbit Positive

c) serious eye damage/irritation

Eye Corrosive Rabbit Positive

d) respiratory or skin

sensitisation

Skin Sensitization Positive

f) carcinogenicity Genotoxicity Negative

Carcinogenicity Skin Negative

g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 22.7

mg/kg

#### 11.2. Information on other hazards

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#### **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product		
The product is classified: Aquatic Chronic 3(H412)		
List of Eco-Toxicological properties of the components		
Component	Ident. Numb.	Ecotox Data
zinc oxide	CAS: 1314-13-2 - EINECS: 215- 222-5 - INDEX: 030-013-00-7	a) Aquatic acute toxicity : LC50 Fish Oncorrhynchus Mykiss = $0.169 \text{ mg/L} 96h$ dossier ECHA
		b) Aquatic chronic toxicity: NOEC Fish Cyprinodontidae, Cyprinidae, Salmonidae and Cottidae = 0.044 mg/L dossier ECHA
		a) Aquatic acute toxicity : EC50 Ceriodaphnia dubia = $0.147 \text{ mg/L}$ dossier ECHA - neutral/high pH and low hardness
		b) Aquatic chronic toxicity : NOEC aquatic invertebrates = 0.014 mg/L dossier ECHA - 0.014 and 0.400 mg Zn/l
		a) Aquatic acute toxicity: IC50 Algae Selenastrum capricornutum = 0.136 mg/L dossier ECHA - neutral/high pH
		b) Aquatic chronic toxicity: NOEC Algae = 0.06 mg/L dossier ECHA
		c) Bacteria toxicity : NOEC Sludge activated slugde = 100 $\mu$ g/L dossier ECHA
		d) Terrestrial toxicity : EC10 Worm Lumbricus terrestris = 1634 mg/kg dossier ECHA
		d) Terrestrial toxicity: EC10 Folsomia candida = 14.6 mg/kg dossier ECHA
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS: 2634-33-5 - EINECS: 220- 120-9 - INDEX: 613-088-00-6	a) Aquatic acute toxicity: LC50 Fish Oncorynchus mykiss = 2.15 mg/L 96h OECD Guideline 203
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 2.9 mg/L 48h OECD Guideline 202
		a) Aquatic acute toxicity : EC50 Algae green alga Selenastrum capricornutum freshwater algae = 110 $\mu$ g/L OECD Guideline 201
		d) Terrestrial toxicity: EC50 Worm Eisenia fetida > 410.6 mg/kg OECD Guideline 207 - Duration 14d
		d) Terrestrial toxicity: EC10 soil microorganisms = 263.7 mg/kg - long term
		a) Aquatic acute toxicity: NOEC Sludge activated sludge 10.3 mg/L 3h OECD Guideline 209
		e) Plant toxicity: LC50 Triticum aestivum = 200 mg/kg OECD Guideline 208
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 0.19 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)
		b) Aquatic chronic toxicity : NOEC Fish Danio rerio = $0.02 \text{ mg/L}$ ,,OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - $35 \text{days}$
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = $0.16$ mg/L $48h$ EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

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21days

b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 0.1 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) -

a) Aquatic acute toxicity: EC50 Algae Skeletonema costatum = 0 mg/L 96h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)

a) Aquatic acute toxicity: EC50 Sludge activated sludge = 4.5 mg/L

- d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests) 14 days
- e) Plant toxicity: NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) 21days

#### 12.2. Persistence and degradability

Component Persitence/Degradability: Test Notes:

1,2-benzisothiazol-3(2H)-one; 1,2- Non-readily biodegradable CO2 production OECD Guideline 301C

benzisothiazolin-3-one

reaction mass of 5-chloro-2- Non-readily biodegradable

methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	- Bioaccumulative	BCF - Bioconcentrantion factor	6.620	
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative	BCF - Bioconcentrantion factor	54.000	≤ 54

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

#### 12.7. Other adverse effects

N.A.

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

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

#### Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

#### **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

#### 14.1. UN number or ID number

N/A

#### 14.2. UN proper shipping name

ADR-Shipping Name: N/A
IATA-Shipping Name: N/A
IMDG-Shipping Name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

#### 14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

#### 14.5. Environmental hazards

Marine pollutant: No

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Environmental Pollutant: No

IMDG-EMS: N/A

#### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A ADR Excepted Quantities: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A

IMDG-Segregation: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

#### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

None

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#### Explosives precursors - Regulation 2019/1148

No substances listed

#### Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

#### **German Water Hazard Class.**

1: Low hazard to waters

#### German Lagerklasse according to TRGS 510:

**LGK 10** 

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

#### Dir. 2004/42/EC (VOC directive)

(ready to use)

Code

Volatile Organic compounds - VOCs = 0.00 % Volatile Organic compounds - VOCs = 0.00 g/L

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

#### Substances for which a Chemical Safety Assessment has been carried out:

zinc oxide

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

Description

Code	Description
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H372	$\label{lem:causes} \mbox{ Causes damage to organs through prolonged or repeated exposure.}$
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
C- 4-	Hanned along and bound astronom. Boundation

Code	Hazard class and hazard category	Description
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.9/1	STOT RE 1	Specific target organ toxicity $-$ repeated exposure, Category 1
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation	Classification procedure
(EC) Nr. 1272/2008	

Aquatic Chronic 3, H412 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

**PSG: Passengers** 

 $\hbox{RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.}$ 

 ${\it STEL: Short Term\ Exposure\ limit.}$ 

 ${\bf STOT:\ Specific\ Target\ Organ\ Toxicity}.$ 

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

 $v P v B \colon Very \ Persistent, \ Very \ Bioaccumulative.$ 

WGK: German Water Hazard Class.

#### Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients

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- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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## Exposure Scenario, 04/07/2022

Substance identity		
	Zinc Oxide	
CAS No.	1314-13-2	
INDEX No.	030-013-00-7	
EINECS No.	215-222-5	
Registration number	01-2119463881-32	

## Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC9b)

## 1. ES 1 Widespread use by professional workers; Various products (PC9a, PC9b)

#### 1.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants
Date - Version	04/07/2022 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (PC9b)

#### **Environment Contributing Scenario**

CS1	ERC8a - ERC8d
Worker Contributing Scenario	
CS2 Rolling, Brushing	PROC10
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
CS5 Roller, spreader, flow application	PROC11

### 1.2 Conditions of use affecting exposure

#### 1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

Environmental	re	lease
categories		

Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)

#### **Product (article) characteristics**

#### Physical form of product:

Solid, medium dustiness

#### **Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use (or from service life)

#### Amounts used:

Application rate 50 t(onnes)/year

Release type: Intermittent release

Technical and organisational conditions and measures

#### Control measures to prevent releases

Upgrade of the system in place or additional air treatment measures, such as wet scrubber and/or air filtration	Air - minimum
and/or thermal oxidation and/or vapour recovery systems, in order to achieve a reduction of the air emissions.	efficiency of: > 50 %

#### Conditions and measures related to sewage treatment plant

#### STP type:

Municipal Sewage Treatment Plant STP effluent (m³/day): 2000

Conditions and measures related to treatment of waste (including article waste)

#### Waste treatment

Incineration, disposal or recycling at specific offsite provider

#### 1.2. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

**Process Categories** 

Roller application or brushing (PROC10)

#### **Product (article) characteristics**

#### **Physical form of product:**

Solid, medium dustiness

#### **Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

#### **Amounts used:**

Application rate 50 t(onnes)/year Application rate 0.15 tonnes/day

#### **Duration:**

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Use suitable eye protection.

Provide employee with skin care programmes.

Wear suitable respiratory protection.

Dermal - minimum efficiency of: >= 90 %

#### Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes process temperature up to .... 25°C

#### 1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

**Process Categories** 

Roller application or brushing (PROC10)

#### **Product (article) characteristics**

#### Physical form of product:

Solid, medium dustiness

#### **Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

#### Amounts used:

Application rate 50 t(onnes)/year Application rate 0.15 tonnes/day

#### **Duration:**

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Use suitable eye protection.

Provide employee with skin care programmes.

Dermal - minimum efficiency of: >= 90 %

Wear suitable respiratory protection.

#### Other conditions affecting worker exposure

Outdoor use Professional use

Temperature: Assumes process temperature up to .... 25°C

#### 1.2. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Process Categories

Non industrial spraying (PROC11)

#### **Product (article) characteristics**

#### **Physical form of product:**

Solid, medium dustiness

#### **Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

#### Amount used, frequency and duration of use/exposure

#### **Amounts used:**

Application rate 50 t(onnes)/year Application rate 0.15 tonnes/day

#### **Duration:**

Covers daily exposures up to 8 hours

#### Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Use suitable eye protection.

Provide employee with skin care programmes.

Wear suitable respiratory protection.

Dermal - minimum efficiency of: >= 90 %

#### Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Assumes process temperature up to .... 25°C

#### 1.2. CS5: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

**Process Categories** 

Non industrial spraying (PROC11)

#### Product (article) characteristics

#### **Physical form of product:**

Solid, medium dustiness

#### **Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

#### Amount used, frequency and duration of use/exposure

#### **Amounts used:**

Application rate 50 t(onnes)/year Application rate 0.15 tonnes/day

#### **Duration:**

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Use suitable eye protection.

Provide employee with skin care programmes.

Wear suitable respiratory protection.

Dermal - minimum efficiency of: >= 90 %

#### Other conditions affecting worker exposure

Outdoor use Professional use

**Temperature:** Assumes process temperature up to .... 25°C

### 1.3 Exposure estimation and reference to its source

#### 1.3. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic	<= 1.4 mg/day	MEASE	N/A
dermal, systemic	<= 0.12 mg/day	MEASE	N/A
combined routes, systemic	<= 1.5 mg/day	MEASE	<= 0.15

#### 1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic	<= 6 mg/day	MEASE	N/A
dermal, systemic	<= 0.12 mg/day	MEASE	N/A
combined routes, systemic	<= 6 mg/day	MEASE	<= 0.6

#### 1.3. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic	<= 6 mg/day	MEASE	N/A
dermal, systemic	<= 0.12 mg/day	MEASE	N/A
combined routes, systemic	<= 6 mg/day	MEASE	<= 0.6

#### 1.3. CS5: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic	<= 24 mg/day	MEASE	N/A
dermal, systemic	<= 0.12 mg/day	MEASE	N/A

combined routes, systemic	<= 24 mg/day	MEASE	<= 2.4

# 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.