

## Safety Data Sheet



# LWY512 IDROVER Fondo bianco isolanteTIX EX - White WB primer isolator EX

Safety Data Sheet dated 9/19/2022, version 2

## 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: IDROVER Fondo bianco isolanteTIX EX - White WB primer isolator EX

Other means of identification:

Trade code: LWY512

Recommended use of the chemical and restrictions on use

Recommended use:

IS- Industrial use

PW - Professional use

Varnish for wood

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20008 BAREGGIO (MI) - Tel. +39 02-903041

Importer:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

Distributor:

Richelieu America Ltd, 7021 Sterling Ponds Blvd, Sterling Heights, MI 48312-5809 U.S. Tel: +1-800-361-6000.

Emergency phone number for U.S.A.: Chemtrec +1-800-424-9300

Competent person responsible for the safety data sheet:

msds@sivam.it

Emergency phone number:

NUOVA S.I.V.A.M. SpA - Tel. +39 02- 903041 (Monday - Friday 8.00 - 15.00)

Poison Centre - Ospedale di Niguarda Ca' Granda - Milan - Tel. +39 02-66101029 (24 h)

## 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ⚠ Aquatic Acute 2, Toxic to aquatic life.
- ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see ... On this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

HMIS rating:

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 7% - < 10%	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm]	Index number: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 REACH No.: 01-2119489379-17	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
>= 1% - < 2.5%	Zinc oxide	Index number: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 REACH No.: 01-2119463881-32	⚠ US-HAE/A1 Aquatic Acute 1 H400 ⚠ US-HAE/C1 Aquatic Chronic 1 H410
138 ppm	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH No.: 01-2120761540-60	⚠ A.1/4/Oral Acute Tox. 4 H302 ⚠ A.2/2 Skin Irrit. 2 H315 ⚠ A.3/1 Eye Dam. 1 H318 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ US-HAE/A1 Aquatic Acute 1 H400 ⚠ US-HAE/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C >= 0,05%: Skin Sens. 1 H317

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124 ppm	Decamethylcyclopentasiloxane (D5)	CAS: 541-02-6 EC: 208-764-9 REACH No.: 01-2119511367-43	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
112 ppm	ammonia ...%	Index number: 007-001-01-2 CAS: 1336-21-6 EC: 215-647-6 REACH No.: 01-2119982985-14	<ul style="list-style-type: none"> <li>⊠ A.2/1B Skin Corr. 1B H314</li> <li>⊠ A.8/3 STOT SE 3 H335</li> <li>⊠ US-HAE/A1 Aquatic Acute 1 H400</li> </ul> Specific Concentration Limits: C >= 5%: STOT SE 3 H335
50 ppm	octamethylcyclotetrasiloxane (D4)	Index number: 014-018-00-1 CAS: 556-67-2 EC: 209-136-7 REACH No.: 01-2119529238-36	<ul style="list-style-type: none"> <li>⊠ B.6/3 Flam. Liq. 3 H226</li> <li>⊠ A.7/2 Repr. 2 H361</li> </ul> US-HAE/C4 Aquatic Chronic 4 H413
21 ppm	2-methyl-2H-isothiazol-3-one	Index number: 613-326-00-9 CAS: 2682-20-4 EC: 220-239-6 REACH No.: 01-2120764690-50	<ul style="list-style-type: none"> <li>⊠ A.1/2/Inhal Acute Tox. 2 H330</li> <li>⊠ A.1/3/Dermal Acute Tox. 3 H311</li> <li>⊠ A.1/3/Oral Acute Tox. 3 H301</li> <li>⊠ A.2/1B Skin Corr. 1B H314</li> <li>⊠ A.4.2/1A Skin Sens. 1A H317</li> <li>⊠ US-HAE/A1 Aquatic Acute 1 H400</li> <li>⊠ US-HAE/C1 Aquatic Chronic 1 H410</li> </ul> Specific Concentration Limits: C >= 0,0015%: Skin Sens. 1 H317
10 ppm	Dodecamethylcyclohexasiloxane (D6)	CAS: 540-97-6 EC: 208-762-8 REACH No.: 01-2119517435-42	The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
2 ppm	octhilonone (ISO); 2-octyl-2H-isothiazol-3-one	Index number: 613-112-00-5 CAS: 26530-20-1 EC: 247-761-7	<ul style="list-style-type: none"> <li>⊠ A.2/1B Skin Corr. 1B H314</li> <li>⊠ A.4.2/1 Skin Sens. 1 H317</li> <li>⊠ US-HAE/A1 Aquatic Acute 1 H400</li> <li>⊠ US-HAE/C1 Aquatic Chronic 1 H410</li> <li>⊠ A.1/3/Dermal Acute Tox. 3 H311</li> <li>⊠ A.1/2/Inhal Acute Tox. 2 H330</li> <li>⊠ A.1/3/Oral Acute Tox. 3 H301</li> </ul> Specific Concentration Limits: C >= 0,0015%: Skin Sens. 1 H317
1 ppm	mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC	Index number: 613-167-00-5	⊠ A.2/1B Skin Corr. 1B H314

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	no. 220-239-6] (3:1) (CAS 26172-55-4 + CAS 2682-20-4)	CAS: 55965-84-9 REACH No.: 01- 2120764691 -48	⚠ A.3/1 Eye Dam. 1 H318 ⚠ A.4.2/1 Skin Sens. 1 H317 ⚠ US-HAE/A1 Aquatic Acute 1 H400 ⚠ US-HAE/C1 Aquatic Chronic 1 H410 ⚠ A.1/3/Oral Acute Tox. 3 H301 ⚠ A.1/3/Dermal Acute Tox. 3 H311 ⚠ A.1/2/Inhal Acute Tox. 2 H330 Specific Concentration Limits: C >= 0,6%: Skin Corr. 1B H314 0,06% <= C < 0.6%: Skin Irrit. 2 H315 0,06% <= C < 0.6%: Eye Irrit. 2A H319 C >= 0,0015%: Skin Sens. 1 H317
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#### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.D. in volume

Oxidizing properties: N.D.

Special protective equipment and precautions for fire-fighters

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.

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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures
- Wear personal protection equipment.
  - Remove persons to safety.
  - See protective measures under point 7 and 8.
- Methods and materials for containment and cleaning up
- Wash with plenty of water.

### 7. HANDLING AND STORAGE

- Precautions for safe handling
- Avoid contact with skin and eyes, inhalation of vapours and mists.
  - Do not use on extensive surface areas in premises where there are occupants.
  - 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.
  - See also section 8 for recommended protective equipment.
  - Advice on general occupational hygiene:
    - Contaminated clothing should be changed before entering eating areas.
    - Do not eat or drink while working.
- Conditions for safe storage, including any incompatibilities
- Keep away from food, drink and feed.
  - Incompatible materials:
    - None in particular.
  - Instructions as regards storage premises:
    - Adequately ventilated premises.
  - Storage temperature:
    - Store at ambient temperature.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control parameters
- titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - CAS: 13463-67-7
    - ACGIH - TWA(8h): 10 mg/m<sup>3</sup> - Notes: A4 - LRT irr
  - Zinc oxide - CAS: 1314-13-2
    - ACGIH - TWA(8h): 2 mg/m<sup>3</sup> - STEL: 10 mg/m<sup>3</sup> - Notes: (R) - Metal fume fever
  - Decamethylcyclotetrasiloxane (D5) - CAS: 541-02-6
    - ACGIH - TWA(8h): 10 ppm
  - ammonia ...% - CAS: 1336-21-6
    - ACGIH - TWA: 18 mg/m<sup>3</sup>, 25 ppm - STEL: 27 mg/m<sup>3</sup>, 35 ppm
  - octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2
    - ACGIH - TWA(8h): 123 mg/m<sup>3</sup>, 10 ppm
  - octhilonone (ISO); 2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1
    - TLV TWA - 0,2 mg/m<sup>3</sup>
    - TLV STEL - 0,6 mg/m<sup>3</sup>
  - mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (CAS 26172-55-4 + CAS 2682-20-4) - CAS: 55965-84-9
    - TLV TWA - 0,05 mg/m<sup>3</sup>
    - TLV STEL - 0,23 mg/m<sup>3</sup>
- DNEL Exposure Limit Values
- titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - CAS: 13463-67-7
    - Worker Industry: 3.3 mg/m<sup>3</sup> - Worker Professional: 3.3 mg/m<sup>3</sup> - Exposure: Human
    - Inhalation - Frequency: Long Term, systemic effects

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Zinc oxide - CAS: 1314-13-2

Worker Industry: 5 mg/m<sup>3</sup> - Worker Professional: 5 mg/m<sup>3</sup> - Consumer: 2.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 83 mg/kg - Worker Professional: 83 mg/kg - Consumer: 83 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 0.5 mg/m<sup>3</sup> - Worker Professional: 0.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 0.83 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

Decamethylcyclotetrasiloxane (D5) - CAS: 541-02-6

Worker Industry: 24.2 mg/m<sup>3</sup> - Worker Professional: 24.2 mg/m<sup>3</sup> - Consumer: 4.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 97.3 mg/m<sup>3</sup> - Worker Professional: 97.3 mg/m<sup>3</sup> - Consumer: 17.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ammonia ...% - CAS: 1336-21-6

Worker Industry: 6.8 mg/kg - Worker Professional: 6.8 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 6.8 mg/kg - Worker Professional: 6.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 47.6 mg/m<sup>3</sup> - Worker Professional: 47.6 mg/m<sup>3</sup> - Consumer: 23.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 47.6 mg/m<sup>3</sup> - Worker Professional: 47.6 mg/m<sup>3</sup> - Consumer: 23.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 36 mg/m<sup>3</sup> - Worker Professional: 36 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 14 mg/m<sup>3</sup> - Worker Professional: 14 mg/m<sup>3</sup> - Consumer: 2.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 6.8 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 6.8 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2

Worker Industry: 73 mg/m<sup>3</sup> - Worker Professional: 73 mg/m<sup>3</sup> - Consumer: 13 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 73 mg/kg - Worker Professional: 73 mg/kg - Consumer: 13 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 3.7 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 3.7 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Dodecamethylcyclohexasiloxane (D6) - CAS: 540-97-6

Worker Industry: 6.1 mg/m<sup>3</sup> - Worker Professional: 6.1 mg/m<sup>3</sup> - Consumer: 1.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 11 mg/m<sup>3</sup> - Worker Professional: 11 mg/m<sup>3</sup> - Consumer: 2.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.7 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

Target: Fresh Water - Value: 0.184 mg/l

Target: Marine water - Value: 0.0184 mg/l

Target: Intermittent emission - Value: 0.61 mg/l

Target: Freshwater sediments - Value: 1000 mg/kg

Target: Marine water sediments - Value: 100 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Soil (agricultural) - Value: 100 mg/kg

Target: Food chain - Value: 1667 mg/kg

Zinc oxide - CAS: 1314-13-2

Target: Fresh Water - Value: 0.02 mg/l

Target: Marine water - Value: 0.006 mg/l

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Target: Freshwater sediments - Value: 117.8 mg/kg  
 Target: Marine water sediments - Value: 56.5 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 0.1 mg/l  
 Target: Soil (agricultural) - Value: 35.6 mg/kg  
 Decamethylcyclotrasiloxane (D5) - CAS: 541-02-6  
 Target: Fresh Water - Value: 0.0012 mg/kg  
 Target: Marine water - Value: 0.00012 mg/kg  
 Target: Freshwater sediments - Value: 11 mg/kg  
 Target: Marine water sediments - Value: 1.1 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 10 mg/l  
 Target: Soil (agricultural) - Value: 2.54 mg/kg  
 ammonia ...% - CAS: 1336-21-6  
 Target: Fresh Water - Value: 0.0011 mg/l  
 Target: Marine water - Value: 0.0011 mg/l  
 Target: Intermittent emission - Value: 0.0068 mg/l  
 octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2  
 Target: Fresh Water - Value: 0.00044 mg/l  
 Target: Marine water - Value: 0.000044 mg/l  
 Target: Freshwater sediments - Value: 0.128 mg/kg  
 Target: Marine water sediments - Value: 0.013 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 10 mg/kg  
 Target: Soil (agricultural) - Value: 0.136 mg/kg  
 Dodecamethylcyclohexasiloxane (D6) - CAS: 540-97-6  
 Target: Freshwater sediments - Value: 13 mg/kg  
 Target: Marine water sediments - Value: 1.3 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 1 mg/kg  
 Target: Soil (agricultural) - Value: 3.77 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Eye glasses with side protection. (EN166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Chemical resistant gloves (EN374).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid, white
Odour:	typical
Odour threshold:	N.D.
pH:	8.5
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	> 100 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.
Vapour density:	> 1
Flash point:	N.A. °C
Evaporation rate:	N.D.
Vapour pressure:	N.D. (20 °C)
Relative density:	1.230 - 1.250



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Solubility in water:	miscible
Solubility in oil:	N.D.
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	N.D. °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.
Miscibility:	N.D.
Fat Solubility:	N.D.
Conductivity:	N.D.
Substance Groups relevant properties	N.A.

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#### 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

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#### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Toxicological information of the product:	IDROVER Fondo bianco isolanteTIX EX - White WB primer isolator EX
a) acute toxicity	Not classified No data available for the product
b) skin corrosion/irritation	Not classified No data available for the product
c) serious eye damage/irritation	Not classified No data available for the product
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1 H317
e) germ cell mutagenicity	Not classified No data available for the product
f) carcinogenicity	Not classified No data available for the product
g) reproductive toxicity	Not classified No data available for the product
h) STOT-single exposure	Not classified No data available for the product
i) STOT-repeated exposure	Not classified No data available for the product
j) aspiration hazard	



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Not classified

No data available for the product

Toxicological information of the main substances found in the product:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 425

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat > 3.5 mg/l - Duration: 4h

Zinc oxide - CAS: 1314-13-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 7950 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat > 5.7 mg/l - Duration: 4h

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 670 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 4115 mg/kg

octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 4800 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 12.17 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit = 2.5 mg/kg

2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 285 mg/kg

octhilinone (ISO); 2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 318 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 311 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 0.58 mg/l - Duration: 4h

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (CAS 26172-55-4 + CAS 2682-20-4) - CAS: 55965-84-9

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 0.31 mg/l - Duration: 4h

Test: LC50 - Route: Oral - Species: Rat = 53 mg/kg

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ].

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Acute 2 - H401; Aquatic Chronic 2 - H411

Zinc oxide - CAS: 1314-13-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.09 mg/l - Duration h: 96

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1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.18 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 2.94 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.11 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1.2 mg/l - Notes: 21 d

Endpoint: NOEC - Species: Fish = 0.21 mg/l - Notes: 28 d

ammonia ...% - CAS: 1336-21-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 24 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 0.53 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.79 mg/l - Duration h: 96

Endpoint: NOEC - Species: Fish = 0.022 mg/l - Notes: 73d

2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.3 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.93 mg/l - Duration h: 48

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H

-isothiazol-3-one [EC no. 220-239-6] (3:1) (CAS 26172-55-4 + CAS 2682-20-4) - CAS: 55965-84-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.018 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 0.126 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 0.188 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 0.0012 mg/l - Duration h: 72 - Notes: OECD 201

Endpoint: NOEC - Species: Daphnia = 0.0035 mg/l - Notes: 21d - OECD 211

Endpoint: NOEC - Species: Fish = 0.02 mg/l - Notes: 38d - OECD 210

Persistence and degradability

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one - CAS: 2634-33-5

Biodegradability: Readily biodegradable - Test: CO2 production - Duration h: 28 days - %:

100 - Notes: OECD 301B

Decamethylcyclopentasiloxane (D5) - CAS: 541-02-6

Biodegradability: Non-readily biodegradable - Duration h: 28 days - %: 0 - Notes: OECD

310

octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2

Biodegradability: Non-readily biodegradable - Duration h: 28 days - %: 3.7 - Notes: OECD

310

Dodecamethylcyclohexasiloxane (D6) - CAS: 540-97-6

Biodegradability: Non-readily biodegradable - Duration h: 28 days - %: 4.47 - Notes:

OECD 310

Bioaccumulative potential

Decamethylcyclopentasiloxane (D5) - CAS: 541-02-6

Bioaccumulation: Bioaccumulative

octamethylcyclotetrasiloxane (D4) - CAS: 556-67-2

Bioaccumulation: Bioaccumulative

Dodecamethylcyclohexasiloxane (D6) - CAS: 540-97-6

Bioaccumulation: Bioaccumulative

Mobility in soil

N.A.

Other adverse effects

None

## 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

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Recover if possible. In so doing, comply with the local and national regulations currently in force.

### 14. TRANSPORT INFORMATION



UN number	
ADR-UN Number:	3082
DOT number:	UN3082
IATA-UN Number:	3082
IMDG-UN Number:	3082
UN proper shipping name	
ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Trizinc bis(orthophosphate))
DOT-Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(Trizinc bis(orthophosphate))
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Trizinc bis(orthophosphate))
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Trizinc bis(orthophosphate))
Transport hazard class(es)	
ADR-Class:	9
DOT Hazard Class:	9
ADR - Hazard identification number:	90
IATA-Class:	9
IATA-Label:	9
IMDG-Class:	9
IMDG-Class:	9
Packing group	
ADR-Packing Group:	III
DOT Packing group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
Environmental hazards	
ADR-Enviromental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
Most important toxic component:	Trizinc bis(orthophosphate)
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions	
Rail (RID):	9
DOT Special provisions:	8, 146, 173, 335, IB3, T4, TP1, TP29
ADR-Subsidiary hazards:	-
ADR-S.P.:	274 335 375 601
ADR-Transport category (Tunnel restriction code):	3 (-)
IATA-Passenger Aircraft:	964
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	964
IATA-S.P.:	A97 A158 A197
IATA-ERG:	9L
IMDG-EmS:	F-A , S-F
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A

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IMDG-Segregation: -

### 15. REGULATORY INFORMATION

#### USA - Federal regulations

##### TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] is listed in TSCA Section 8b

Zinc oxide is listed in TSCA Section 8b

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one is listed in TSCA Section 8b

Decamethylcyclotetrasiloxane (D5) is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

ammonia ...% is listed in TSCA Section 8b

octamethylcyclotetrasiloxane (D4) is listed in TSCA Section 12b, Section 4 Test, Section 8a - PAIR, Section 8b, Section 8d HSDR

2-methyl-2H-isothiazol-3-one is listed in TSCA Section 12b, Section 8b

Dodecamethylcyclohexasiloxane (D6) is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

octhilinone (ISO); 2-octyl-2H-isothiazol-3-one is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (CAS 26172-55-4 + CAS 2682-20-4) is listed in TSCA Section 12b, Section 8b.

##### SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: ammonia ...%.

Section 313 – Toxic chemical list: ammonia ...%.

##### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: ammonia ...% - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 8900756.564 pounds.

##### CAA - Clean Air Act

CAA listed substances:

None.

##### CWA - Clean Water Act

CWA listed substances:

ammonia ...% is listed in CWA Section 311

octhilinone (ISO); 2-octyl-2H-isothiazol-3-one is listed in CWA Section 304.

#### USA - State specific regulations

##### California Proposition 65

Substance(s) listed under California Proposition 65:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] - Listed as carcinogen.

##### Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Zinc oxide

ammonia ...%.

##### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Zinc oxide

ammonia ...%.

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Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Zinc oxide

ammonia ...%.

Volatile Organic compounds - VOCs = 4.11 %

Volatile Organic compounds - VOCs = 51.42 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.02

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#### 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H226 Flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

H330 Fatal if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

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Sections modified from the previous revision:

- 2. HAZARD(S) IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST-AID MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- SECTION 14: Transport information
- 15. REGULATORY INFORMATION

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

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

## Safety Data Sheet

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ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
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.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average