

**Xperse® 251**

Version 1.0

US

MSDS Number: 30000003583

Revision Date: 03/14/2016

**SECTION 1. IDENTIFICATION**

Product name : Xperse® 251

Product code : 300000003583

**Manufacturer or supplier's details**

Company name of supplier : EverZinc Belgium – ZNO

Address : EverZinc Belgium – ZNO  
Rue de Chênée 53  
4031 Angleur  
Belgium

E-mail address of person responsible for the SDS : info.msds@everzinc.com

**Poison Center**

Telephone : 1 800 222 1222

Hours of operation : 24HRS

**Supplier**Emergency telephone number : For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries):+32 3 213 15 70  
For transport in the Middle East (Israel excluded) & Arabic speaking Africa:+32 3 213 33 79  
For transport in the USA and Canada:1-877 986 4267  
For transport in Asian and the Pacific (China excluded):+65 62 64 78 36  
For transport in China:400 88 71 190

Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

**Recommended use of the chemical and restrictions on use**

Recommended use : Cosmetic additive

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

This material is non-hazardous as defined by the American OSHA Hazard Communication Standard.

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### GHS Label element

This material is non-hazardous as defined by the American OSHA Hazard Communication Standard.

Hazard pictograms :



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 31 %

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
zinc oxide	1314-13-2	<=69
triethoxy caprylyl silane	2943-75-1	<=1

## SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If symptoms persist, call a physician.  
If unconscious, place in recovery position and get medical attention immediately.

In case of eye contact : Remove contact lenses.  
Flush eyes with water as a precaution.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

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Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water mist  
Water spray jet  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

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Smoking, eating and drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.  
To maintain product quality, do not store in heat or direct sunlight.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
zinc oxide	1314-13-2	TWA (Respirable fraction)	2 mg/m <sup>3</sup>	ACGIH
		STEL (Respirable fraction)	10 mg/m <sup>3</sup>	ACGIH
		TWA (Dust)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (Fumes)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Fumes)	10 mg/m <sup>3</sup>	NIOSH REL
		C (Dust)	15 mg/m <sup>3</sup>	NIOSH REL
		TWA (Fumes)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Fumes)	5 mg/m <sup>3</sup>	OSHA P0
		STEL (Fumes)	10 mg/m <sup>3</sup>	OSHA P0

#### Hazardous components without workplace control parameters

Components	CAS-No.
triethoxy caprylyl silane	2943-75-1

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

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### Personal protective equipment

- Respiratory protection : Respirator must be worn if exposed to dust.  
Effective dust mask  
FFP3 (EN149:2001+A1:2009)
- Hand protection  
Material : Leather
- Remarks : Leather gloves (EN388)
- Eye protection : Safety glasses with side-shields conforming to EN166
- Skin and body protection : Safety shoes  
(EN ISO 20345 - S1)  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : suspension
- Colour : off-white
- Odour : odourless
- Relative density : 1.8
- Density : 1.8 g/cm<sup>3</sup> (25 °C)
- Solubility(ies)  
Water solubility : insoluble

## SECTION 10. STABILITY AND REACTIVITY

- Reactivity : Stable at normal ambient temperature and pressure.
- Chemical stability : No decomposition if stored and applied as directed.
- Possibility of hazardous reactions : No decomposition if stored and applied as directed.
- Conditions to avoid : Take measures to prevent the build up of electrostatic charge.
- Incompatible materials : None.
- Hazardous decomposition products : No decomposition if stored normally.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

##### Components:

###### **zinc oxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

###### **triethoxy caprylyl silane:**

Acute oral toxicity : LD50 (Rat): > 5,110 mg/kg

Acute inhalation toxicity : Assessment: No data available

Acute dermal toxicity : Assessment: No data available

#### Skin corrosion/irritation

##### Product:

Result: No skin irritation

##### Components:

###### **triethoxy caprylyl silane:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

#### Serious eye damage/eye irritation

##### Components:

###### **zinc oxide:**

Result: No eye irritation

###### **triethoxy caprylyl silane:**

Result: No eye irritation

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### Respiratory or skin sensitisation

#### Product:

Remarks: No data available

#### Components:

##### **zinc oxide:**

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

#### Components:

##### **zinc oxide:**

Genotoxicity in vitro : Species: Bacteria  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal  
Method: OECD Test Guideline 475  
Result: negative  
Remarks: Based on read across from structural related substance:  
zinc sulphate

### Carcinogenicity

#### Product:

Remarks: No data available

#### **IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

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### STOT - single exposure

**Product:**

Remarks: No data available

### STOT - repeated exposure

**Product:**

Remarks: No data available

### Further information

**Product:**

Remarks: No data available

**Components:**

**zinc oxide:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Product:**

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 30 %

**Components:**

**zinc oxide:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 320 mg/l  
Exposure time: 96 h  
Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.17 mg/l  
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.017 mg/l  
Exposure time: 72 h  
Remarks: Fresh water

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### Persistence and degradability

**Components:**



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### triethoxy caprylyl silane:

Biodegradability : aerobic  
Result: Not readily biodegradable.  
Biodegradation: 12 %  
Exposure time: 28 days  
Method: OECD Test Guideline 301C

### Bioaccumulative potential

#### Components:

### triethoxy caprylyl silane:

Bioaccumulation : Bioconcentration factor (BCF): 1,890

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

#### Components:

### zinc oxide:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Dispose of in accordance with the European Directives on waste and hazardous waste.  
In accordance with local and national regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

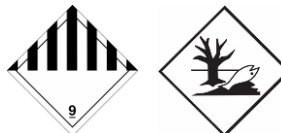
UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc oxide)  
Class : 9  
Packing group : III  
Labels : 9



Marine pollutant : yes

##### IATA-DGR

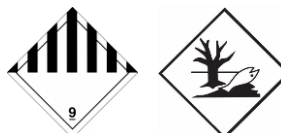
UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(zinc oxide)  
Class : 9  
Packing group : III  
Labels : Miscellaneous



Packing instruction (cargo aircraft) : 964  
Maximum quantity : 450.00 L  
Packing instruction (passenger aircraft) : 964  
Maximum quantity : 450.00 L

##### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(zinc oxide)  
Class : 9  
Packing group : III  
Labels : 9



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EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR - DOT

UN/ID/NA number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class : 9  
Packing group : III  
Labels : CLASS 9



ERG Code : 171  
Marine pollutant : no  
Remarks :

### Special precautions for user

Remarks : Effective 1st of January 2015, when carried in single packaging or inner packagings of 5 litres or less, this material is not subject to the transport regulations dangerous goods. The single packaging or outer packaging must not be UN-approved but must be a good quality packaging.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

zinc oxide	zinc oxide	69 %
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### Clean Air Act

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This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

zinc oxide	1314-13-2	69 %
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### US State Regulations

#### Massachusetts Right To Know

zinc oxide	1314-13-2	50 - 70 %
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#### Pennsylvania Right To Know

zinc oxide	1314-13-2	50 - 70 %
Decanoic acid, ester with 1,2,3-propanetriol octanoate	65381-09-1	20 - 30 %
Octadecanoic acid, 12-hydroxy-, homopolymer	27924-99-8	1 - 5 %

#### New Jersey Right To Know

zinc oxide	1314-13-2	50 - 70 %
Decanoic acid, ester with 1,2,3-propanetriol octanoate	65381-09-1	20 - 30 %
Octadecanoic acid, 12-hydroxy-, homopolymer	27924-99-8	1 - 5 %
triethoxy caprylyl silane	2943-75-1	1 - 5 %

### The components of this product are reported in the following inventories:

CH INV : Not in compliance with the inventory  
Octadecanoic acid, 12-hydroxy-, homopolymer

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory  
Octadecanoic acid, 12-hydroxy-, homopolymer

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

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PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

### Further information

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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