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Zano®

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

SECTION 1. IDENTIFICATION

Product name : Zano®

Trade name : Zano® 10 ; Zano® 20 ; Zano® M

Product code : 30000003607

CAS-No. : 1314-13-2

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 num-

ber

: 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.

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.

MSDS Number: 30000003607 Version 1.0 US Revision Date: 03/14/2016

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 dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
zinc oxide	1314-13-2	<=100

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.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Version 1.0 US MSDS Number: 30000003607 Revision Date: 03/14/2016

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

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

courses.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

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 nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Avoid dust formation.

tive equipment and emer-

gency procedures

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 Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Zano®

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

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 sun-

light.

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/m3	ACGIH
		STEL (Respirable fraction)	10 mg/m3	ACGIH
		TWA (Dust)	5 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	NIOSH REL
		ST (Fumes)	10 mg/m3	NIOSH REL
		C (Dust)	15 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Fumes)	5 mg/m3	OSHA P0
		STEL (Fumes)	10 mg/m3	OSHA P0

Engineering measures

: Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

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

Zano®

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

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 : solid

Colour : white

Odour : odourless

Flammability (solid, gas) : The product is not flammable.

Relative density : 5.61

Density : 5.61 g/cm3

Solubility(ies)

Water solubility : insoluble

Molecular weight : 81.37 g/mol

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 reac-

tions

: No decomposition if stored and applied as directed.

Conditions to avoid : None known.

Incompatible materials : Acids

Alkali metals

Hazardous decomposition

products

: No decomposition if stored normally.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Zano®

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

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 inhala-

tion toxicity

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

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Product:

Remarks: No data available

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

zinc oxide:

Result: No eye irritation

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

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

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 sub-

stance: 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.

OSHANo component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen 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

STOT - single exposure

Product:

Remarks: No data available

STOT - repeated exposure

Product:

Remarks: No data available

Further information

Product:

Remarks: No data available

Components:

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

zinc oxide:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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 tox-

icity)

M-Factor (Chronic aquatic

toxicity)

: 1

: 1

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection 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 infor-

mation

: 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 infor- : An environmental hazard cannot be excluded in the event of

Zano®

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

mation unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

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 chemi-

cal 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.

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

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(zinc oxide)

Class : 9
Packing group : III
Labels : 9





Marine pollutant : yes

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(zinc oxide)

Class : 9 Packing group : III

Labels : Miscellaneous

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016





Packing instruction (cargo

aircraft)

Maximum quantity : 400.00 KG

Packing instruction (passen-

ger aircraft)

Maximum quantity : 400.00 KG

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

(zinc oxide)

Class : 9
Packing group : III
Labels : 9





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

Not regulated as a dangerous good

Special precautions for user

Remarks : Effective 1st of January 2015, when carried in single packag-

ing or inner packagings of 5 kg 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

Zano®				
Version 1.0	US	MSDS Number: 300000003607	7 Revision D	Date: 03/14/2016
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	100 %

Clean Air Act

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 SOCMI 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

307 zinc oxide	1314-13-2	100 %	
US State Regulations			
Massachusetts Right To Know zinc oxide		1314-13-2	90 - 100 %
Pennsylvania Right To Know zinc oxide		1314-13-2	90 - 100 %
New Jersey Right To Know zinc oxide		1314-13-2	90 - 100 %

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

Version 1.0 US MSDS Number: 300000003607 Revision Date: 03/14/2016

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

Revision Date : 03/14/2016

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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