

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : ZP10 Zinc Phosphate ZP 10
Product code : ZP10

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Pigment white 32 (CAS No.: 7779-90-0)
Use of the substance/mixture : Pigment

1.3. Supplier

Heubach Ltd.
99 Newbold Road
Fairless Hills, PA, United States of America, 19030
USA
T (215) 736-0712 - F (215) 736-1699
US.regulatory-affairs@heubachcolor.com

1.4. Emergency telephone number

Emergency number : CHEMTREC 1(800) 424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Hazardous to the aquatic environment - Chronic Hazard Category 1 H410 Very toxic to aquatic life with long lasting effects
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS US) : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container in a safe manner in accordance with local, regional and national regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : ZP10 Zinc Phosphate ZP 10

Name	Product identifier	%	GHS US classification
Trizinc diphosphate	CAS-No.: 7779-90-0	97.5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Zinc oxide (ZnO)	CAS-No.: 1314-13-2	2.5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms :

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to Section 8 "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Harmful to aquatic life.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Use vacuum to minimize dust.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Provide good ventilation in process area to prevent formation of dust.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep in well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ZP10 Zinc Phosphate ZP 10	
No additional information available	
Trizinc diphosphate (7779-90-0)	
No additional information available	
Zinc oxide (ZnO) (1314-13-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (respirable particulate matter)
ACGIH OEL STEL	10 mg/m ³ (respirable particulate matter)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	5 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
OSHA PEL (TWA) [2]	15 mg/m ³ (Total dust)
USA - IDLH - Occupational Exposure Limits	
IDLH	500 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	5 mg/m ³ (dust and fume)

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Zinc oxide (ZnO) (1314-13-2)

NIOSH REL (STEL)	10 mg/m ³ (fume)
NIOSH REL (Ceiling)	15 mg/m ³ (dust)

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: White powder.
Color	: White
Odor	: Odorless
Odor threshold	: No data available
pH	: 6 – 8 at 20°C
Melting point	: 846 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Density	: 3.7 g/cm ³
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Trizinc diphosphate (7779-90-0)

LD50 oral rat	> 5000 mg/kg
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Zinc oxide (ZnO) (1314-13-2)

LD50 oral rat	> 5000 mg/kg
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Skin corrosion/irritation	: Not classified pH: 6 – 8 at 20°C
Serious eye damage/irritation	: Not classified pH: 6 – 8 at 20°C
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic : Not applicable
Potential Adverse human health effects and symptoms :

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.

12.2. Persistence and degradability

Trizinc diphosphate (7779-90-0)

Persistence and degradability	Not established.
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Zinc oxide (ZnO) (1314-13-2)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

Trizinc diphosphate (7779-90-0)

Bioaccumulative potential	Not established.
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Zinc oxide (ZnO) (1314-13-2)

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

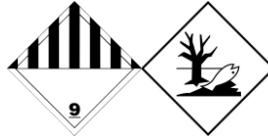
In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
3077	UN3077	3077	3077
14.2. Proper Shipping Name			
Environmentally hazardous substances, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
14.3. Transport hazard class(es)			
9	9	9	9

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT	TDG	IMDG	IATA
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture contains a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Zinc compound N982: Trizinc Phosphate and Zinc oxide.

15.2. International regulations

ZP10 Zinc Phosphate ZP 10

Components listed on the United States TSCA (Toxic Substances Control Act) inventory.
Components listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations

ZP10 Zinc Phosphate ZP 10

State or local regulations	CONEG Compliant
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This product is quite likely to contain trace metals in parts per million (PPM) which are listed on Prop 65 however they will not exceed the CONEG limits.

Component	State or local regulations
Zinc oxide (ZnO)(1314-13-2)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 11/02/2021

ZP10 Zinc Phosphate ZP 10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Hazard Rating

Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical Hazard	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: F - Safety glasses, Gloves, Synthetic apron, Dust respirator

Safety Data Sheet (SDS), USA

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