

Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 10/18/2016

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Version: 1.1

**SECTION 1: IDENTIFICATION****1.1. PRODUCT IDENTIFIER**

Product name : ZP-5B  
Product code : Not available

**1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Use of the substance/mixture : Non-Destructive Testing

**1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET****Manufacturer**

Magnaflux  
155 Harlem Ave.  
Glenview, IL 60025 - USA  
T: 847-657-5300

**Distributor****1.4. EMERGENCY TELEPHONE NUMBER**

Emergency number : CHEMTREC 800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION****2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE****GHS classification**

Acute Tox. 4 (Inhalation)  
Skin Irrit. 2  
Eye Dam. 1  
Carc. 1A (Inhalation)  
STOT RE 1

**2.2. LABEL ELEMENTS****GHS labeling**

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS) :

Use only outdoors or in a well-ventilated area. Wash hands, forearms and face thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3. OTHER HAZARDS**

No additional information available

**2.4. UNKNOWN ACUTE TOXICITY (GHS)**

87% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)).

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. SUBSTANCES

Not applicable

#### 3.2. MIXTURES

Name	Product identifier	%
Talc	(CAS No) 14807-96-6	60.29
Limestone	(CAS No) 1317-65-3	19.80
Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]-	(CAS No) 27306-78-1	6.21
Tribasic sodium phosphate dodecahydrate	(CAS No) 10101-89-0	3.04
Alcohols, C12-15, ethoxylated propoxylated	(CAS No) 68551-13-3	1.42
Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-(2-propenyloxy)-	(CAS No) 27252-80-8	1.38
Sodium metasilicate	(CAS No) 6834-92-0	1.24
Quartz	(CAS No) 14808-60-7	0.38
Didecyldimethylammonium chloride	(CAS No) 7173-51-5	0.36
Distillates, petroleum, hydrotreated light naphthenic	(CAS No) 64742-53-6	0.20

### SECTION 4: FIRST AID MEASURES

#### 4.1. DESCRIPTION OF FIRST AID MEASURES

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Symptoms/injuries after inhalation : Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. EXTINGUISHING MEDIA

- Suitable extinguishing media : Water fog. Foam. dry chemical powder. Carbon dioxide.
- Unsuitable extinguishing media : Do not use water jet.

#### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, silicon oxides, formaldehyde.

#### 5.3. ADVICE FOR FIREFIGHTERS

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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**6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

**6.3. REFERENCE TO OTHER SECTIONS**

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

**SECTION 7: HANDLING AND STORAGE**
**7.1. PRECAUTIONS FOR SAFE HANDLING**

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Minimize generation of dust. Good housekeeping is important to prevent accumulation of dust. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Storage conditions : Keep out of the reach of children. Keep container tightly closed in a cool, well-ventilated place.

**7.3. SPECIFIC END USE(S)**

Not available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1. CONTROL PARAMETERS**

Talc (14807-96-6)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable fraction)
USA - IDLH	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (containing no asbestos and <1% quartz)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Quartz-respirable dust)
Limestone (1317-65-3)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)
		5 mg/m <sup>3</sup> (respirable fraction)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust)
		5 mg/m <sup>3</sup> (respirable dust)
Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]- (27306-78-1)		
ACGIH	Not applicable	
OSHA	Not applicable	
Tribasic sodium phosphate dodecahydrate (10101-89-0)		
ACGIH	Not applicable	
OSHA	Not applicable	
Alcohols, C12-15, ethoxylated propoxylated (68551-13-3)		
ACGIH	Not applicable	
OSHA	Not applicable	
Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-(2-propenyloxy)- (27252-80-8)		
ACGIH	Not applicable	
OSHA	Not applicable	
Sodium metasilicate (6834-92-0)		
ACGIH	Not applicable	
OSHA	Not applicable	

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Sodium metasilicate (6834-92-0)		
OXY	OXY REL Ceiling	3 mg/m <sup>3</sup>
Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
USA - IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
Didecyldimethylammonium chloride (7173-51-5)		
ACGIH	Not applicable	
OSHA	Not applicable	
Particulates not otherwise regulated (PNOR) and Particulates not otherwise classified (PNOC)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particles)
		3 mg/m <sup>3</sup> (respirable particles)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)
		5 mg/m <sup>3</sup> (respirable fraction)
Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)		
ACGIH	Not applicable	
OSHA	Not applicable	

## 8.2. EXPOSURE CONTROLS

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Solid
Appearance	: Granular powder
Color	: White
Odor	: Mild to odorless
Odor threshold	: No data available
pH	: 10.3 (10% in water)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

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Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: 20% in water
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

**9.2. OTHER INFORMATION**

No additional information available

**SECTION 10: STABILITY AND REACTIVITY**
**10.1. REACTIVITY**

No dangerous reaction known under conditions of normal use.

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Acids. Strong oxidizing agents.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

May include, and are not limited to: oxides of carbon, silicon oxides, formaldehyde.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity : Harmful if inhaled.

ZP-5B	
LD50 oral rat	> 2000 mg/kg (Calculated acute toxicity estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated acute toxicity estimate)
LC50 inhalation rat	>1.0 but ≤5.0 mg/l/4h (Calculated Acute Toxicity Estimate)

Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]- (27306-78-1)	
LD50 oral rat	4920 µl/kg
LC50 inhalation rat	2 g/m³/4h

Tribasic sodium phosphate dodecahydrate (10101-89-0)	
LD50 oral rat	7400 mg/kg

Alcohols, C12-15, ethoxylated propoxylated (68551-13-3)	
LD50 oral rat	1350 mg/kg
LD50 dermal rat	2000 mg/kg

Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg

Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg

Didecyldimethylammonium chloride (7173-51-5)	
LD50 oral rat	84 mg/kg

Skin corrosion/irritation : Causes skin irritation.

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Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: May cause cancer by inhalation.

Talc (14807-96-6)	
IARC group	3 - Not classifiable (Talc not containing asbestiform fibres)
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Talc (14807-96-6)	
LC50 fish 1	> 100 g/l (96 h - Brachydanio rerio [semi-static])

Sodium metasilicate (6834-92-0)	
LC50 fish 1	210 mg/l (96 h - Brachydanio rerio [semi-static])
LC50 fish 2	210 mg/l (96 h - Brachydanio rerio)

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)	
LC50 fish 1	> 5000 mg/l (96 h - Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (48 h - Daphnia magna)

### 12.2. PERSISTENCE AND DEGRADABILITY

ZP-5B	
Persistence and degradability	Not established.

### 12.3. BIOACCUMULATIVE POTENTIAL

ZP-5B	
Bioaccumulative potential	Not established.

Talc (14807-96-6)	
BCF fish 1	(no known bioaccumulation)

### 12.4. MOBILITY IN SOIL

No additional information available

### 12.5. OTHER ADVERSE EFFECTS

Effect on the global warming : No known effects from this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. WASTE TREATMENT METHODS

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

## SECTION 14: TRANSPORT INFORMATION

In accordance with DOT/TDG/IATA/IMDG

DOT (non-bulk) : Not regulated  
 DOT (bulk) : Not regulated  
 TDG : Not regulated  
 IATA : Not regulated  
 IMDG : Not regulated

### ADDITIONAL INFORMATION

Other information : No supplementary information available.  
 Special transport precautions : Do not handle until all safety precautions have been read and understood.

## SECTION 15: REGULATORY INFORMATION

### 15.1. FEDERAL REGULATIONS

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

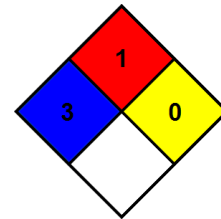
All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories, except for:

Chlorite-group minerals	CAS No 1318-59-8
Tribasic sodium phosphate dodecahydrate	CAS No 10101-89-0

#### Poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propoxy]- (27306-78-1)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
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NFPA health hazard : 3  
 NFPA fire hazard : 1  
 NFPA reactivity : 0



### 15.2. US STATE REGULATIONS

<b>ZP-5B</b>	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16: OTHER INFORMATION

Date of issue : 10/18/2016  
 Revision date : 11/29/2021  
 Other information : The hazards given in this SDS apply to the product at full concentration. By diluting the product with water the hazards will be reduced. It is up to the employer/user to determine the proper personal protection equipment and safety precautions when using diluted product.

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*