

MATERIAL SAFETY DATA SHEET**1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME	Zinc Phosphate/Zinc strontium phosphate/Activated zinc phosphate Pigment
PRODUCT CODE	ZP-46/ZSP-44/ZP-30
CHEMICAL CLASS	Inorganic Zinc compound
CHEMICAL FORMULA	$Zn_3(PO_4)_2 \bullet 2H_2O$

2- COMPOSITION AND INFORMATION ON INGREDIENTS

Cas Number	EC (EINECS) Number	Chemical Name	Formula	% Zinc Phosphate
7779-90-0	231-944-3	Zinc Phosphate Dihydrate(Trizinc bis(orthophosphate))	$Zn_3(PO_4)_2 \bullet 2H_2O$	100

3- HAZARDS IDENTIFICATION

HAZARD DESCRIPTION	N: Dangerous for the environment.
INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT	R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4- FIRST AID

LIMITS OF EXPOSURE	
LONG TIME EXPOSURE	ACUTE, CHRONIC
FIRST AID	
EYE CONTACT : Harmful.	Rinse opened eye for several minutes under running water, if symptoms persist call a physician.
SKIN CONTACT : Harmful.	Immediately wash with water and soap and rinse thoroughly.
INGESTION : --	Call a physician.
INHALATION : Harmful.	Supply fresh air.
TOXIC TYPE :	-
OTHER ADVISES :	-

5- FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
PROTECTIVE EQUIPMENT	Wear self-contained respirator. Wear fully protective impervious suit.
ADDITIONAL INFORMATION	Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

6- ACCIDENTAL RELEASE MEASURES

PERSON RELATED SAFETY PRECAUTIONS	Avoid dust formation. Wear protective clothing.
MEASURES FOR ENVIRONMENTAL PROTECTION	Do not allow material to be released to the sewers, surface or ground water. Inform respective authorities in case of seepage into the water course or sewage system.
MEASURES FOR CLEANING / COLLECTING	Do not use a dry brush as dust clouds can be created. Send for recovery or disposal in suitable receptables.

7- HANDLING AND STORAGE

STORING and LOADING PRECAUTIONS	Store in roofed places at room temperature. Store only in unopened original receptables.
HANDLING	Prevent formation of dust.
OTHERS	Storage class : 13 (VCI)

8- EXPOSURE CONTROLS AND PERSONAL PROTECTION**Personal Protection**

EYES	Safety glasses or goggles. Eye-flushing stations.
SKIN	Leather gloves and protective clothes, apron, impervious gloves.
LOCAL VENTILATION EXITS	Mechanical(General) local ventilation is enough.
OTHER PROTECTIVE EQUIPMENTS	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

9- PHYSICAL AND CHEMICAL PROPERTIES

FORM	Powder	SOLUBILITY IN WATER	Insoluble
MELTING POINT	140°C	COLOUR	White
BOILING POINT	N/E	ODOR	Odorless
FREEZING POINT	N/E	MOLECULAR WEIGHT	422,11
BULK DENSITY ±15 %	300kg/m ³	EVAPORATION DENSITY	N/E
SPECIFIC GRAVITY	3,3±0,1	EVAPORATION RATE	N/E
OTHER DATA		pH	7,0±0,1

10- STABILITY AND REACTIVITY

No decomposition if stored and used according to specifications.

11- TOXICOLOGICAL INFORMATION

Acute toxicity and primary irritant effect.

ON THE EYE	No irritating effect.
SENSITIZATION	On the skin: no irritant effect.
ACUTE TOXICITY	LD/LC50 values relevant for classification: 7779-90-0 trizinc bis(orthophosphate)*2-4 hydrate. Oral, LD50>5000 mg/kg (rat)

12- ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

13- DISPOSAL INFORMATION

Consult state, local or national regulations for proper disposal. Disposal must be made according to official regulations.

14-TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: 9 (M7) Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90

UN-Number: 3077

Packaging group: III

Hazard label: 9

Description of goods: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIZINC BIS(ORTHOPHOSPHATE) * 2-4 H2O)

Maritime transport IMDG: IMDG Class: 9

UN Number: 3077

Hazard Label : 9

Packaging group: III

EMS Number: F-A,S-F

Marine pollutant: (P) Yes

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIZINC BIS(ORTHOPHOSPHATE) * 2-4 H2O)

Air transport ICAO-TI and IATA-DGR:ICAO/IATA Class: 9

UN/ID Number: 3077

Packaging group: III

Hazard Label 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIZINC BIS(ORTHOPHOSPHATE) * 2-4 H2O)

15-REGULATIONS

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product: N Dangerous for the environment

• Hazard-determining components of labelling: trizinc bis(orthophosphate) * 2-4 H2O

• Risk phrases:

R 50/53 :Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• Safety phrases:

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- National regulations:
- Waterhazard class:

Water hazard class 2 : hazardous for water.Assessment by list

16-OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.