Safety Data Sheets

Zinc Oxide Pw4

Product code: PS-MI0105
Department: white dry pigments
C.A.S. : 1314-13-2

Section: 1 Identification

Product Name	Zinc oxide Pw4
C.I. Number	77947
Use	pigment, colorant
Chemical family	Inorganic pigment
24-hour emergency number CALL	Chemtrec 1-800-424-9300

Section: 2 Hazard Identification

HGS Label Elements

Signal Word

Danger

GHS Classification

aquatic hazard-Cat.1

Hazard statements

H315 Causes skin reaction.
H320 Causes eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/ vapors/spray.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P391 Collect spillage.
P403 + 233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section: 3 Composition / Information on Ingredients

Ingredients	CAS#	EINECS#	%Weight	Hazardous
Zinc Oxide	1314-13-2	215-222-5	100	no

Section: 4 First Aid Measures

skin contact	Wash affected area immediately with large amounts of soap and water if irritation develops or persists, seek medical attention
eye contact	Immediately hold eyelids open and flush with water for at least 15 minutes seek medical attention
inhalation	Move victim to fresh air if breathing has stopped, perform artificial respiration in all cases of doubt, or when symptoms persist, seek medical attention
ingestion	DO NOT induce vomiting. If necessary, seek medical attention.
notes to physician	Inert dust.

Section: 5 Fire Fighting Measures

extinguishing media	water spray, foam, dry powder or carbon dioxide
hazardous combustion products	not applicable
special fire fighting procedures firefighters	should wear protective equipment as required
unusual fire / explosion hazards	Assure all equipment is properly grounded as product may cause static discharge, and designed for controlled energy release. Avoid high dust concentrations. Avoid heat, sparks and open flames.

Section: 6 Accidental Release Measures

Leaks and spills	avoid creating dust do not allow product to enter sewers or waterways vaccum/shovel up and transfer into a drum for reuse or disposal wear protective clothing during cleanup.

Section: 7 Handling And Storage

Handling procedures :	Avoid creation of respirable dust. Avoid contact with eyes and skin. Avoid inhalation and ingestion Wash skin thoroughly after handling and before eating or smoking. Avoid dusting when handling and avoid all possible sources of ignition (spark or flame). Use spark-proof tools and explosion-proof equipment. Use good industrial hygiene practices in handling this material.
storage needs :	store in a cool, dry, well-ventilated area keep container tightly closed.

Section: 8 Exposure Control/Personal Protection

ingredients	OSHA TLV
Nuisance dust	15mg/m³ (total dust) 5mg/m³ (breatheable dust)
Amorphous silica	6 mg/m³
ventilation requirements	general ventillation is recommended
protective equipment	
eye/type	wear saftey glasses with side shields or goggles
respiratory/type	a niosh/osha approved dust respirator should be worn determine the appropriate type by consulting the respirator manufacturer
gloves/ type	wear protective gloves
clothing/type	no special protective clothing is required
footwear/type	no special footwear is required
body/type	no special protective clothing is required

Section: 9 Physical and Chemical Properties

Appearance:	White powder
Vapor Density (Air=1):	No information
Odor:	Odorless
Melting Point:	No information
Solubility:	Negligible
Vapor Pressure (mm Hg):	No information
Density:	3.0 g/cc
% Volatiles by volume:	No information
pH:	NA
Evaporation Rate (BuAc = 1):	No information
Boiling Point:	No information

Section: 10 Stability And Reactivity

hazardous polymerization	will not occur
stability	stable
incompatibility	Strong reducing agents, combustibles, and organic materials.
conditions to avoid avoid	Avoid generating dust. Avoid heat and any source of ignition.
sensitivity to mechanical impact	not sensitive
sensitivity to static discharge	Dust suspended in air in critical proportions and in the presence of an ignition source may cause explosion.
hazardous products of decomposition	Not applicable.

Section: 11 Toxicological Information

Inhalation :	No known significant effects or critical hazards.
Ingestion :	No known significant effects or critical hazards.
Skin contact :	No known significant effects or critical hazards.
Eye Contact :	Exposure to airborne concentrations above statutory or recommended exposure limits may cause eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information

Section: 12 Ecological Information

Ecotoxicity:

Acute toxicity for fish (Oncirhynchus mykiss)	LC50 (96h)	0.14 – 2.60 mg Zn+2 /l.
Acute toxicity for crustacea (faphnia magna)	EC50 (48h)	0.04 – 0.86 mg Zn+2 /l.
Acute toxicity for algae (selenastrum capricornutum)	EC50 (72h)	0.13 – 0.15 mg Zn+2 /l.
Mobility:	Do not mix with waste waters.	
Persistence / Degradability:	Not bio-degradable. This substance is very dangerous to aquatic organisms.	

The solubility of Zn+2 was tested according to the Council Directive 67/548/EEC, Annex V, Part C, C1 Acute toxicity for fish, and C2 Acute toxicity for Daphnia.
This test resulted in a solubility finding for water soluble Zn+2 of 25 mg Zn+2 /L.

Section: 13 Disposal Considerations

waste disposal	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. Dispose in a suitable waste treatment facility in compliance with all federal, provincial and local regulations

Section: 14 Transport Information

U.S. Department of Transportation (D.O.T.)
International Maritime Dangerous Goods (I.M.O. / I.M.D.G.)
International Air (I.C.A.O. / I.A.T.A.)

Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc Oxide)
UN Number:	3077 Class: 9
Packing Group:	III

Section: 15 Regulatory Information

CHEMICAL INVENTORY STATUS

INGREDIENT	USA TSCA	EUROPE EINICS	JAPAN MITI	AUSTRALIA AICS	KOREA ECL	CHINA IECSC	CANADA DSL	PHILLIPINES PICCS
Zinc Oxide	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Federal, State & International Regulations

INGREDIENT	SARA 302 RQ	TPQ	SARA 313 List Chemical Category	CERCLA	RCRA 261.33	TSCA 8(d)
Zinc Oxide No	No	No	No Zinc Compounds	Yes (no RQ listed)	No	No

Chemical Weapons Convention	No
Fire:	No
TSCA 12 (b)	No
Pressure:	No
CDTA:	No
Reactivity:	No
SARA 311/312:	
Acute	yes
Chronic	no
Australian Hazchem Code:	NA

OSHA Hazardous Substance:	This material is classified as not hazardous under OSHA regulations.
Clean Air Act: - Hazardous Air Pollutants (HAP):	This product does not contain any Hazardous Air Pollutants (HAP) as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
Clean Air Act – Volatile Organic Compounds (VOC):	This product does not contain any SOCMI Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).
Clean Air Act – Ozone Depleting Substances (DOS):	This product neither contains nor was manufactured with a Class I or Class II ozone depleting substance (DOS), as defined by the U.S. Clean Air Act, Section 602 (40 CFR 82, Subpt. A, App. A + B).
Clean Water Act – Priority Pollutants (PP):	This product does not contain any priority pollutants listed under the U.S. Clean Water Act, Section 307 (2) (1) Priority Pollutant List (40 CFR 401.15).
Pennsylvania / New Jersey Right-to-Know:	This product contains barium sulfate (CAS # 7727-43-7) which is currently on the Pennsylvania and New Jersey Right – to – Know lists of hazardous chemicals.
WHMIS:	This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section: 16 Other Information

HMIS Information:		NFPA Information:	
Health:	1	Health:	1
Flammability:	0	Flammability:	0
Physical Hazard:	0	Physical Hazard:	0

HMIS and NFPA uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme hazard. Although similar, the two ratings systems are intended for different purposes, and use different criteria.

Reference	Manufacturer's material safety data sheet.
Prepared by	Kama pigments

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