

Material Safety Data Sheet

ZINCANODE 330

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY :

Product Name : Zincanode 330
 Product Type : Inorganic Zinc Silicate
 Supplier : Berger Paints Emirates Limited
 P O Box 27524, Dubai, UAE.
 Telephone Number : 009714-3391000
 Emergency Telephone Number : 009714-3391078

2. COMPOSITION/INFORMATION ON INGREDIENTS :

	Weight%	CAS Number	LEL Vol%	ACGIH TLV-TWA
• Tetra Ethyl Silicate	5 - 9	000078-10-4	1.3	10 ppm
• Ethylene Glycol				
Monoethyl Ether	9 - 12	110-80-5	1.7	5 ppm
• Iso Propyl Alcohol	2 - 5	67-63-0	2.5	400 ppm
• Hydrochloric Acid	0.05-0.02	NA	NA	NA
• Aluminium Silicate	1 - 5	1332-58-7	NA	2 mg/m ³
• Organo Clay	0 - 1	121888-68-4	NA	10 mg/m ³
• Zinc	50 - 70	7440-66-6	NA	5 mg/m ³

3. HAZARDOUS IDENTIFICATION :

• Hazardous identification of the preparation :
 R-10 : Flammable

4. FIRST AID MEASURES :

General : Remove contaminated clothing.
 First Aid – Inhalation : Remove to fresh air. If rapid recovery does not occur, Obtain medical attention.
 First Aid – Skin : Remove contaminated clothing immediately. Wash skin Thoroughly with soap and water.
 First Aid – Eye : Irrigate copiously with clean, fresh water for atleast 10 Minutes, holding the eye lids apart and seek medical Advice.
 First Aid – Ingestion : Do not induce vomiting. Obtain immediate medical Attention.

5. FIRE FIGHTING MEASURES :

Specific hazards : Fire will produce dense, black smoke. Inhalation of Decomposition products may cause serious health hazards.
 Extinguishing media : Water spray-mist, foam, dry chemical powder, carbon Dioxide, sand.
 Unsuitable extinguishing media : Water in a jet.

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6. ACCIDENTAL RELEASE MEASURES :

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| Personal precautions | : Avoid contact with skin and eyes. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. Avoid sparks. |
| Personal protection | : Wear PVC gloves, safety boots. Wear full face-piece Respiratory with organic vapour canister NPF 400. In a Confined space, wear self-contained breathing apparatus Open circuit type NPF 2000. |
| Environmental precautions | : Prevent contamination of soil and water. |
| Processing for Cleaning/ Collection | : Contain and collect spillage with non-combustible absorbent materials e.g., sand, earth or spill control Material and place in a container for disposal according to local regulation. |

7. HANDLING AND STORAGE :

Avoid prolonged or repeated contact with skin. Do not breathe vapour, spray/mist. Extinguish any naked flames. Remove ignition sources. Avoid spark. Do not smoke. Take Precautionary measures against static discharge.

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| Handling temperature | : Ambient |
| Storage | : Keep container tightly closed and in a well ventilated Place. Keep away from direct sunlight and other sources Of heat or ignition/ Do not smoke in storage areas. |
| Storage temperature | : Ambient. |

8. EXPOSURE CONTROL/PERSONAL PROTECTION :

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| Engineering Control Measures | : Use only in well ventilated areas. |
| Respiratory protection | : When workers are facing concentrations about the Exposure limit they must use appropriate certified Respirators. |
| Hand protection | : PVC Gloves. Barrier creams may help to protect the Exposed areas of the skin. |
| Eye protection | : Use safety eyewear designed to protect against splash Of products. |

9. PHYSICAL AND CHEMICAL PROPERTIES :

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| Physical state | : Liquid |
| Odour | : Alcoholic |
| <u>Safety related information</u> | <u>Value</u> |
| Flash Point | : 28°C |
| Ignition temperature | : 398°C (Based on Iso Propyl Alcohol) |
| Vapour density (Vs. Air) | : Heavier |
| Evaporation Rate | : Slower |
| Density at 25°C | : 1.02 – 1.08 |
| Solubility in water | : Partly missible. |

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10. STABILITY/REACTIVITY :

Stability	: Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Water in presence of acids and bases.
Hazardous decomposition Products	: Burning produce Carbon Monoixide and Carbon Dioxide. Silicic Acid and Ethanol by hydrolysis in Presence of acid and alkali.

11. TOXICOLOGICAL INFORMATION :

Basis of assessment	: This product was not tested but the information given is Based on the known toxicological data of the constituents
Acute Oral Toxicity	: LD 50 Rat : 5,09 (4,34 – 5,91)ml/kg males; 2,46 (1,79 – 3,39) ml/kg females. (Based on Ethylene Glycol Monoethyl Ether)
Acute percutaneous Toxicity	: Rabbit, 24 hr occluded: LD50: 4,00 (1,25 – 12,8) ml/kg Males; 4,92 (3,58 – 6,78) ml/kg females. (Based on Ethylene Glycol Monoethyl Ether).
Primary skin irritation	: Rabbit, 4 hr covered : minor to moderate erythema with Subsequent desquamation. (Based on Ethylene Glycol Monoethyl Ether).
Sensitization	: No information available.
Eye irritation	: Rabbit, 0,1 ml:moderate corneal injury; iritis; moderate To severe conjunctival irritation, necrosis of nictating Membrane in 2/5 but healing complete by day 10. (Based on Ethylene Glycol Monoethyl Ether).

12. ECOLOGICAL INFORMATION :

Water contamination class	: Do not contaminates surface water.
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13. DISPOSAL INFORMATION :

Precautions	: Refer to Section 7
Waste disposal	: Recover or recycle if possible. Otherwise incineration.
Container disposal	: Allow the residue to dry and dispose of as scrap metal.

14. TRANSPORT INFORMATION :

UN Number	: 1263
IMCO Class	: 3.3
Page Number	: 3149
Marine Pollutant	: Yes
Proper shipping name	: Paint

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15. REGULATORY INFORMATION :

EC Classification	: Flammable and harmful.
Contains	: Ethylene Glycol Monoethyl Ether, Iso Propyl Alcohol.
• EC Risk Phrases	
R-10	: Flammable
R-20/21/22	: Harmful by inhalation, in contact with skin and being swallowed.
• EC Safety Phrases	
S-7	: Keep container tightly closed.
S-16	: Keep away from sources of ignition. No smoking.

16. DISCLAIMER :

This information is based on our current knowledge and is obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding the correctness. This information is extended to describe the product for the purposes of health, safety and environmental requirements only. The conditions or methods of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage connected with the handling, storage, use or disposal of the product.