

MATERIAL SAFETY DATA SHEET

MSDS Name: MONARCH **OzoProtect EW**
Manufacturer Name: MONARCH INDUSTRIAL PRODUCTS (I) PVT LTD
Stock No.: 11204

PRODUCT AND COMPANY IDENTIFICATION

Product Name : MONARCH **OzoProtect EW**
Product Code : 11204
Manufacturer Name : MONARCH INDUSTRIAL PRODUCTS (I) PVT LTD
Address : NO25, SIDCO Industrial Estate,
Theni - 625531 , Tamil Nadu, India
MSDS Revision Date : 10/01/2011
Emergency telephone number : 91- 4546-251020

COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS NO	Percentage
Acrylic polymer emulsion	Not Required*	30-60
Titanium dioxide	13463-67-7	10-30
Inorganic extender	Not Required*	10-30
Additives	Not Required*	<10
Solvent - Non Hazardous (Flash Point >61 degree C)	Not Required*	<10
Water	7732-18-5	

HAZARDS IDENTIFICATION

Not classified as hazardous.

FIRST AID MEASURES

Eye Contact	: Immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician if irritation persist.
Skin Contact	: Flush skin with soap & water while removing contaminated cloths. Seek medical Help if required. Wash contaminated cloths before reuse.
Inhalation	: Move the subject to fresh air. If not breathing, give artificial respiration. If Respiration is difficult, give Oxygen and seek help from physician.
Ingestion	: Immediately give two glasses of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.
Note to Physician	: There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.

FIRE AND EXPLOSION HAZARD OF MATERIAL

Fire Extinguishing Media	: Material will not burn, however dried film may burn. Use Water, Dry Chemical Powder, CO2 to extinguish the fire.
Thermal Decomposition Product	: May yield acrid smoke and irritating gases with oxides of carbon.
Special Fire Fighting Procedure	: Wear self-contained breathing apparatus or equivalent and full protective equipment.
Unusual Fire and Explosion Hazards	: Material will not burn. They may spatter if the temperature exceeds boiling point. Dried polymer films are capable of burning.

ACCIDENTAL RELEASE MEASURES

Personal Precautions :	: Use personal protective equipment & handling listed under sections VII & VIII
Environment Precautions :	: Review fire and safety precautions before proceeding with clean up. Keep spectators away. Dike and contain spill with an inert (e.g. sand, earth, etc.) absorbent. Collect the absorbed material in plastic bag for final disposal. Transfer liquid to container for recovery or disposal. Keep spill out of sewers and open bodies of water.
Cleaning methods :	: Wash floor with water as emulsion may be slippery. Emulsion can be coagulated by stepwise addition of lime and Ferric chloride or Ferric Sulphate up to water clear end point. Coagulum and contaminated diking material may be land filled according to current local or central regulation. Clear water may be sewer for biological treatment.

HANDLING AND STORAGE

- ✓ Store the product in cool, dry place. Do not allow to freeze.
- ✓ Keep containers closed when not in use.
- ✓ Avoid contact with skin and eyes.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Component	Time Weighted Average		Short term Exposure Limit	
	(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Acrylic polymer	-	a	-	-
Titanium dioxide	-	10b	-	-
Inorganic extender	-	10bb	-	-
Additives	-	a	-	-
Solvent - Non Hazardous	-	a	-	-
Water	-	a	-	-

a=not listed b = as nuisance dust

PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color	White (untinted)
State	Viscous liquid
Odor Characteristic	Mild ammonia
pH	7-8
Specific Gravity (Water = 1)	0.85
Volatiles	~50% (water)
Melting Point	~0°C (water)
Boiling Point	~100°C (water)
Solubility in Water	Dispersible
Flash Point	Not applicable

STABILITY AND REACTIVITY

Stability

Considered stable under normal conditions of use and handling

Hazardous decomposition products

Thermal decomposition may produce acrylic monomers, carbon monoxide, carbon dioxide and oxides of nitrogen.

TOXICOLOGICAL INFORMATION

No data available for the product.

ECOLOGICAL INFORMATION

No data available for the product.

DISPOSAL CONSIDERATIONS

Collect and dispose of waste at an authorized disposal facility.
Dispose of empty containers in accordance with federal, state and local laws.

TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the Code for the Transport of Dangerous Goods by Road and Rail.

REGULATORY INFORMATION

None required.

ADDITIONAL INFORMATION

The information presented herein is based on data considered to be accurate as of date of preparation of the Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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