

Orbit Coating - Material Data Sheet

1. IDENTIFICATION

Product

Product Name: HYDROSHIELD ELASTOMERIC ROOF COATING

Other means of identification

Product: Code HS 1002

Synonyms: none

Recommended use of the chemical and restrictions on use

Recommended Uses advised as waterproofing of concrete/metal roofs

Details of Manufacturer/supplier

Manufacturer: MIS Chemical Industries L.L.C, Plot No. 598-645, Dubai Investment Park-1, Dubai, United Arab Emirates, [Tel:No.97143511046](tel:97143511046), [email: ekacoatings@gmail.com](mailto:ekacoatings@gmail.com),

Supplier: Orbit Coatings Products Services LLC

2. HAZARDS IDENTIFICATION

Classification OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2A

Reproductive toxicity : Category 1B

Specific target organ toxicity (single exposure) : Category 3

Label elements

Danger Hazard statements

Causes skin irritation

Causes serious eye irritation

May damage fertility or the unborn child

May cause respiratory irritation

Appearance viscous

Physical state liquid

Odor Slight

Emergency Overview

Precautionary Statements – Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Odor Slight

IF exposed or concerned: 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

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Page 1 of 5

Precautionary Statements – Storage

Store locked up

Store in a well-ventilated place. Keep the container tightly closed

Precautionary Statements –

Disposal Dispose of contents/containers to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

Unknown acute toxicity

64.6445497% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Chemical Name	CAS No	Weight-%
Water *	7732-18-5	15 - 40
Acrylic polymer blend *	Proprietary	10 – 30
Aluminum hydroxide (Al(OH) ₃) *	30 21645-51-2	5 - 10
Limestone *	1317-65-3	5 - 10
Titanium dioxide *	13463-67-7	5 – 10
Zinc oxide *	1314-13-2	1 – 5

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact: Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water.

Self-protection of the first aider: Use personal protective equipment as required. Avoid contact with skin, eyes, or Clothing.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, sand, earth, water spray or regular foam. Unsuitable extinguishing media D.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible materials: Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum hydroxide (Al(OH) ₃) 21645-51-2	TWA: 1 mg/m ³	-	-
Limestone 1317-65-3	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
Zinc oxide 1314-13-2	STEL: 10 mg/m ³ respirable fraction	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust
	TWA: 2 mg/m ³ respirable fraction	TWA: 5 mg/m ³ respirable fraction	TWA: 5 mg/m ³ dust STEL: 10 mg/m ³ fume

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls: Tight sealing safety goggles

Skin and body protection: Wear protective gloves and protective clothing

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA-approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink, or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Keep away from food, drink, and animal-feeding stuff.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	: liquid	Odor	: Slight
Appearance	: viscous	Odor threshold:	No information
Color	: White		

Property -

pH	: 8-10
Melting point/freezing point	: No information available
Boiling point/boiling range	: > 100 °C
Flashpoint	: > 100 °C
Evaporation rate	: No information available
Flammability (solid, gas)	: No information available
Flammability Limit in Air	: No information available
Upper flammability limit	: No information available
Lower flammability limit	: No information available
Vapor pressure	: No information available
Vapor density	: No information available
Relative density	: 1.0
Water solubility	: Soluble
Solubility in other solvents	: No information available
Partition coefficient	: No information available
Autoignition temperature	: No information available
Decomposition temperature	: No information available
Kinematic viscosity	: > 100 mm ² /s @ 40°C
Dynamic viscosity	: No information available
Explosive properties	: Not an explosive
Oxidizing properties	: Not applicable
Other Information	
Softening point	: No information available
Molecular weight	: No information available
VOC Content (%)	: No information available
Density	: No information available
Bulk density	: No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Elevated Temperature. Incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- Inhalation : May cause irritation
- Eye contact : Irritating to eyes
- Skin contact : Irritating to skin
- Ingestion : No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

67.85835 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability: No information available.

Bioaccumulation

Chemical Name	Partition coefficient
Butyl benzyl phthalate 85-68-7	4.91

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Contaminated packaging Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Do not reuse the container.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories	Legends
TSCA Complies	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL Complies	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS Complies	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
IECSC Complies	Japan's Existing and New Chemical Substances
KECL Complies	China Inventory of Existing Chemical Substances
PICCS Complies	Philippines Inventory of Chemicals and Chemical Substances
AICS Complies	Australian Inventory of Chemical Substances

Disclaimer The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.