

MATERIAL SAFETY DATA SHEET

INFORMATION OF MANUFACTURER

COMPANY NAME: Urban Solution Korea Co., Ltd.

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SECTION 1 - Product Identification

Product Name: EcoCoolRoof® Dirtyguard

Product Class: Environmentally Friendly High Solar Reflective Water Base Cool Wall Coating

SECTION 2 – Hazards Identifications

Appearance : Usually white colored moderately, Color can be various

Physical State : Liquid

Odor : Mild Ether-like

Classification : This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communications Standard (29 CFR 1910.1200). However, this material safety data sheet contains valuable information to the safe handling and proper use of this product. This document should be detained and available for employees and other users of this product.

Other Hazards : Do not dispose directly to the open water

SECTION 3 – Compositions/Information on Ingredients

INGREDIENT	CAS #	%BY WEIGHT
ACRYLIC POLYMER	NOT HAZARDOUS	25~50%
TITANIUM DIOXIDE	1317-80-2	≥10 ~ ≤25
ZINC OXIDE	1314-13-2	≤3
WATER	NOT HAZARDOUS	40~60%

SECTION 4 – First Aid Measures

INHALATION – Remove victim to fresh air and keep at rest in a position for comfortable breathing. If necessary call for physician for medical support. If unconscious, place in recovery position and get immediate medical attention. Maintain an open airway.

SKIN CONTACT – Substance may cause slight irritation. Wash affected skin areas thoroughly with soap & water

EYE CONTACT – Substance may cause slight irritation. Flush eyes with a large amount of water for at least 5 min.

Check for and remove any contact lenses. Contact an ophthalmologist if necessary.

INGESTION – Wash out mouth with water. Remove victim to fresh air and keep at rest in a comfortable position for breathing.

If material has been swallowed, give small quantities of water to drink. If vomiting occurs, the head should be kept low so that vomit does not enter the lung. Consult with physician for further medical treatment.

Floor may be slippery. Keep spectators away and provide extra care to avoid falling. Remove all liquid with the use of vacuum cleaner. Decontaminate all clothing and the spill area with a detergent and large amounts of water.

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SECTION 5 - Fire Fighting Measures

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and surrounding environment including water fog, dry chemical powder, carbon dioxide.

Unsuitable Extinguishing media: None known.

Specific hazards arising from the chemical: No information available.

Explosion data : None known

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

SECTION 6 – Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for containment: Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent materials and place in an appropriate container for disposal. Dispose of in accordance with applicable local procedures

Methods for cleaning up: Stop leak if without risk. Move containers from the spill area. Approach release from upwind. Contain and collect spillage with noncombustible absorbent materials. Check local licensed waste disposal contractor.

SECTION 7 – Handling and Storage

Keep from freezing, Use and store this product with adequate ventilation. Store in a cool, dark place. Keep away from direct sunlight. The minimum recommended storage temperature for this materials is 5°C/41°F. The maximum storage temperature for this material is 49°C/120°F.

SECTION 8 – Exposure controls/Personal protection

Eye/Face Protection : Wear approved safety goggles where a splash hazard exists.

Skin and Body Protection : It is water based environmentally friendly product. Wash with plenty of water, Wear protective clothing, including boots, gloves, lab coat.

Respiratory Protection : For spills or overexposure wear NIOSH approved respiratory protection with organic vapor cartridges.

General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – Physical and Chemical Properties

Basic Physical and chemical properties

Physical state: Liquid

APPEARANCE	Usually White Various colors	ODOR	Not Available
SOLUBILITY IN WATER	Dispersible	FREEZING POINT	0°C / 32°F

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EVAPORATION RATE	< 1	BOILLING POINT	N/A
VOC	< 30 g/L	%- VOLATILE BY VOLUME	20% ~ 40%

SECTION 10 – Stability and Reactivity

Reactivity

Not reactive under normal conditions of use, storage and transport.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Not hazardous under normal processing.

Conditions to Avoid

Extremes of temperature and contact with incompatible chemicals.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – Toxicological Information

Information on likely routes of exposure

Inhalation : Prolonged inhalation may be harmful.

Eye Contact : Direct contact with the eye may cause temporary irritation.

Skin Contact : May cause slight skin irritation.

Ingestion : None known.

SECTION 12 – Ecological Information

Persistence and degradability: Not readily biodegradable

Bioaccumulation: No information available.

Other adverse effects: No Known significant or critical hazards

SECTION 13 – Disposal Consideration

Waste treatment methods

Disposal of waste: disposal should be in accordance with local government regulations

Contaminated packaging: Do not reuse containers.

SECTION 14 – Transport Information

DOT : Not regulated as dangerous goods.

IATA : Not regulated as dangerous goods.

IMDG : Not regulated as dangerous goods.

SECTION 15 – Regulatory Information

Not regulated & no chemical safety assessment has been carried out. No additional information available

Check local regulatory information

SECTION 16 – Other Information

None

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For further information, contact Urban Solution Korea Co.,Ltd technical sales department.