

1. IDENTIFICATION

Product identifier

Product Name MS-COOLROOF

Other means of identification

Product Code MS-WC-002
Synonyms MS-WC-001, MS-EN-002

Recommended use of the chemical and restrictions on use

Recommended Use White Roof Coating. Reflective Roof Coating. For Professional/Commercial Use.

Uses advised against for exterior use only. Do not use indoors.

Details of the supplier of the safety data sheet

Company Address EnviroEcoats Inc., 785 W Rialto Ave, Rialto, CA 92376

Emergency telephone number

Company Phone Number (909) 4405017
Emergency Telephone Call CHEMTREC Day or Night:
 Within USA and Canada: 1-800 424-9300
 Outside USA and Canada: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Carcinogenicity Category 1A

Label elements

Emergency Overview

Dange

Hazard statements



Appearance

Physical state

Odor

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Unknown acute toxicity 83.8675% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS**Substance Mixture**

This product is a mixture.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Common name White Roof Coating.
Chemical nature Aqueous solution.

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|-------------------------------------|------------|----------|--------------|
| Calcium Carbonate | 1317-65-3 | 40 - 50% | * |
| Styrene Acrylic Polymer Emulsion | 25036-16-2 | 10 - 20% | * |
| Water | 7732-18-5 | 10 - 20% | * |
| Titanium Dioxide (Non-Carcinogenic) | 13463-67-7 | 0 - 10% | * |
| Quartz | 14808-60-7 | 0 - 10% | * |
| Amorphous Silica (Silicon Dioxide) | 7631-86-9 | 0 - 10% | * |
| Aluminum Hydroxide | 21645-51-2 | 0 - 10% | * |

4. FIRST AID MEASURES**Description of first aid measures**

General advice Under conditions of normal use, no hazards are anticipated which require special first aid measures.

Eye contact in the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

| | |
|---|---|
| Skin contact | Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately. |
| Ingestion | Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-protection of the first aider | First aider: Pay attention to self-protection! |

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation. May cause eye irritation.

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. Carbon dioxide (CO₂). Sand. Use foam or water FOG as a last resort.

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

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

Explosion data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive.

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 No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required.

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|---------------------------------|---|
| Other Information | Extremely slippery when spilled. |
| For emergency responders | Use personal protection recommended in Section 8. |

Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. |
|----------------------------------|--|

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Contain spillage with non-combustible absorbent material, e.g., sand, earth, diatomaceous earth, vermiculite. |
| Methods for cleaning up | Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13). |

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

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|--------------------------------|---|
| Advice on safe handling | Use personal protective equipment as required. Use only outdoors. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|---|
| Storage Conditions | Keep from freezing. Keep containers tightly closed in a cool, dry, well-ventilated place. |
| Incompatible materials | Strong acids. Strong oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| | |
|----------------------------|---|
| Exposure Guidelines | No ACGIH or OSHA PEL is assigned to this mixture. Exposure limits for the component materials are shown below. This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA. |
|----------------------------|---|

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|--|---|---|
| Calcium Carbonate 1317-65-3 | - | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust |
| Titanium Dioxide (Non-Carcinogenic) 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust | IDLH: 5000 mg/m ³ |
| Quartz 14808-60-7 | TWA: 0.025 mg/m ³ respirable fraction | (vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/ (%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/ (%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/ (%SiO ₂ + 2) mg/m ³ TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust |
| Amorphous Silica (Silicon Dioxide) 7631-86-9 | - | (vacated) TWA: 6 mg/m ³ < 1% Crystalline silica TWA: 20 mppcf : (80)/ (% SiO ₂) mg/m ³ TWA | IDLH: 3000 mg/m ³ TWA: 6 mg/m ³ |
| Aluminum Hydroxide 21645-51-2 | TWA: 1 mg/m ³ respirable fraction | - | - |

Appropriate engineering controls

Engineering Controls None under normal outdoor use conditions.

Individual protection measures, such as personal protective equipment

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin and body protection** Wear protective gloves and protective clothing that is resistant to chemical penetration.
- Respiratory protection** No protective equipment is needed under normal use conditions.
- General Hygiene Consideration** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------|-----------------|
| Physical state | Liquid |
| Appearance | Viscous |
| Color | White |
| Odor | Low |
| Odor threshold | Negligible odor |

| Property | Values | Remarks Method |
|-------------------------------|---|--|
| pH | Not applicable | |
| Melting point/freezing point | None 0 °C None / 32 °F | Melting Point is not applicable. Freezing points are shown. |
| Boiling point / boiling range | > 100 °C / 212 °F | |
| Flash point | Not applicable °C / Not applicable | Non-Flammable |
| Evaporation rate | The evaporation rate of the water component of this emulsion product is dependent upon: 1) The temperature of the water at the air-water surface; 2) The humidity of the air; 3) The area of the air-water surface; 4) The temperature of the air. No information available | No data available. Evaporation rate is dependent upon atmospheric conditions |
| Flammability (solid, gas) | Non-Flammable | |
| Flammability Limit in Air | | |
| Upper flammability limit | Not applicable | |
| Lower flammability limit: | Not applicable | |
| Vapor pressure | 2.33 (kPa) | @ 20 °C |
| Vapor density | 5.3 | Where: Air = 1 at 68 degrees F (20 degrees C) |
| Specific Gravity | 1.34 | Water = 1g/ml |
| Water solubility | Dispersible | |
| Solubility in other solvents | Soluble in aromatic and solvents. | |
| Partition coefficient | No information available | No data available. |
| Autoignition temperature | 330 °C / 626 °F | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | Not an explosive | |
| Oxidizing properties | None | |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | Not applicable |
| Molecular weight | No information available |
| VOC Content (%) | Less than 25 g/l |
| Density | 11.0 to 11.4 lb./gal |
| Bulk density | Not applicable |

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stable.

Possibility of Hazardous Reactions

None under normal use.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

None known for product as a whole.

Incompatible materials

Strong acids. Strong oxidizing agents.

Hazardous Decomposition Products

Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

Inhalation

Avoid breathing vapors or mists.

Eye contact

Avoid contact with eyes. Contact with eyes may cause irritation.

Skin contact

May cause irritation.

Ingestion

If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected route of exposure.

Component Information

* No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: http://www.oehha.org/prop65/CRNR_notices/safe_use/sylicasud2.html

The IARC Monograph (Vol 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "No significant exposure to primary particles of Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints."

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|---------------------|-------------|-----------------|
| Titanium Dioxide (Non-Carcinogenic) | > 10000 mg/kg (Rat) | - | - |

| | | | |
|--|--------------------|-----------------------|-------------------------|
| 13463-67-7 | | | |
| Quartz 14808-60-7 | = 500 mg/kg (Rat) | - | - |
| Amorphous Silica (Silicon Dioxide) 7631-86-9 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 2.2 mg/L (Rat) 1 h |
| Aluminum Hydroxide 21645-51-2 | > 5000 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Skin corrosion/irritation Can cause skin irritation.
Serious eye damage/eye irritation Irritating to eyes.
Irritation Irritating to eyes and skin.
Corrosivity Not classified.
Sensitization May cause sensitization of susceptible persons.
Germ cell mutagenicity This product does not contain any ingredients that cause germ cell mutagenicity.
Carcinogenicity The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.
 TITANIUM DIOXIDE: Titanium dioxide has been classified by IARC as possible carcinogenic to humans (Group 2B) through inhalation. This classification is based on inadequate evidence for carcinogenicity in humans, but sufficient evidence of carcinogenicity in animals (rats). It should be noted that recent studies have demonstrated that the rat may be particularly sensitive to high levels of toxicity dusts such as titanium dioxide. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. If the product is a coating or dispersion containing titanium dioxide where the titanium dioxide is bound in the product matrix, it is not likely to result in significant airborne exposure unless the product itself is sprayed or otherwise dispersed in air.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|-------|----------|-------|------|
| Titanium Dioxide (Non-Carcinogenic) 13463-67-7 | - | Group 2B | - | X |
| Quartz 14808-60-7 | A2 | Group 1 | Known | X |
| Amorphous Silica (Silicon Dioxide) 7631-86-9 | - | Group 3 | - | - |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - *Known Human Carcinogen*
 A2 - *Suspected Human Carcinogen*
 A3 - *Animal Carcinogen*
 A4 - *Not Classifiable as a Human Carcinogen*
IARC (International Agency for Research on Cancer)
 Group 1 - *Carcinogenic to Humans*
 Group 2A - *Probably Carcinogenic to Humans*
 Group 2B - *Possibly Carcinogenic to Humans*
 Group 3 - *Not classifiable as a human carcinogen.* **NTP (National Toxicology Program)**
 Known - *Known Carcinogen*
 Reasonably Anticipated - *Reasonably Anticipated to be a Human Carcinogen*
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - *Present*

| | |
|---------------------------------|------------------------------------|
| Reproductive toxicity | None known for product as a whole. |
| Developmental Toxicity | None known for product as a whole. |
| Teratogenicity | None known. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

| | |
|-----------------------|-----------|
| ATE mix (oral) | 69,262.00 |
|-----------------------|-----------|

12. ECOLOGICAL INFORMATION

Ecotoxicity

83.69425 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------|--|
| Disposal of wastes | Disposal should be in accordance with applicable local, regional, national and international laws and regulations. |
| Contaminated packaging | Do not reuse container. |

14. TRANSPORT INFORMATION

| | |
|--------------------------|---|
| Note: | This material is not subject to regulation as a hazardous material for shipping |
| <u>DOT</u> | Not regulated. |
| <u>TDG</u> | Not regulated. |
| <u>MEX</u> | Not regulated. |
| <u>ICAO (air)</u> | Not regulated. |
| <u>IATA</u> | Not regulated. |
| <u>IMDG</u> | Not regulated. |
| <u>RID</u> | Not applicable in the United States. |
| <u>ADR</u> | Not applicable in the United States. |
| <u>ADN</u> | Not applicable in the United States. |

15. REGULATORY INFORMATION**International Inventories**

| | |
|-----------------|---|
| TSCA | All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt. |
| DSL/NDSL | All of the components of this product are listed on the DSL. |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

| Chemical Name | California Proposition 65 |
|--|---------------------------|
| Titanium Dioxide (Non-Carcinogenic) - 13463-67-7 | Carcinogen |
| Quartz - 14808-60-7 | Carcinogen |

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Calcium Carbonate 1317-65-3 | X | X | X |
| Titanium Dioxide (Non-Carcinogenic) 13463-67-7 | X | X | X |
| Quartz 14808-60-7 | X | X | X |
| Amorphous Silica (Silicon Dioxide) 7631-86-9 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|-------------|-------------------------|-----------------------|---------------------------|---|
| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | Physical and Chemical Properties |
| HMIS | Health hazards 1 | Flammability 0 | Physical hazards 0 | Personal protection - |

Prepared By Enviroecoats Technical Department

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Revision Note

SDS sections updated

Disclaimer

The information provided in this 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