



Safety Data Sheet

Revision Date: November 6th, 2015

1. Identification

1.1 Product Name: MASK O

1.2 Other Identification:

Chemical Family: Calcium Carbonate

Formula: CaCO_3

CAS Numbers: 471-34-1

Product: 60% Calcium Carbonate

1.3 Recommended Uses:

Solar protectant

1.4 Manufacturer:

OR-CAL Inc.

29454 Meadowview Rd.

Junction City, OR 97448

541-689-4413 (Office)

541-689-5026 (FAX)

www.orcalinc.com

EPA Establishment No. 52251-OR-005

1.5 Emergency Contact:

CHEMTREC

1-800-424-9300 (US and Canada)

National Pesticide Information Center:

1-800-858-7378

American Association of Poison Control Centers:

1-800-222-1222

2. Hazards

2.1 Hazard Classification:

Health:

Acute Oral Toxicity Not Classified

Acute Dermal Toxicity Not Classified

Acute Inhalation Toxicity Unknown

Skin Corrosion/Irritation Not Irritating

Eye Damage/Irritation Not irritating

Physical:

None known

2.2 Signal Word(s):

Not required (GHS)

Precaution (CA Organic)

2.2.1 Hazard Statement(s):

Do not ingest

Avoid contact with skin and eyes

2.2.2 Symbol(s):

No label elements required.

2.2.3 Precautionary Statement:

- Wash hands thoroughly after handling before eating, drinking, and chewing gum, using tobacco, or using the toilet.
- Remove PPE after handling this product.
- Have the product label or container with you when calling the poison control center or doctor, or going for treatment.

2.3 Unclassified Hazard(s):

None Known

2.4 Unknown Toxicity Ingredient:

None Known

3. Composition/Information on Ingredient

3.1 Product Composition:

Chemical Name	Formula	CAS No.	WT % A.I.	EINECS No.
Calcium Carbonate	CaCO ₃	471-34-1	60%	207-439-9
Remaining Components	Trade Secret	NA	40%	NA

4. First Aid Measures

4.1 Symptoms/Effects:

Acute: No known acute effects

Chronic: No known chronic effects

4.2 Eyes:

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation persists.

4.3 Skin:

If on skin: Rinse off immediately with plenty of water for 15-20 minutes. Take off contaminated clothing and wash it before reuse.

4.4 Ingestion:

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Rinse mouth. Do not give anything by mouth to an unconscious person.

4.5 Inhalation:

If inhaled: Move person to fresh air and keep person comfortable. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

5. Firefighting Measures

5.1 Flammable properties: (See section 9 for additional properties)

5.2 Extinguishing Media:

5.2.1 Suitable Extinguishing Media:

Water Fog

5.2.2 Unsuitable Extinguishing Media:

Not Applicable

5.3 Protection of Firefighters:

5.3.1 Specific Hazards Arising from the Chemical

Physical Hazards:

None known

Chemical Hazards:

None known

5.3.2 Protective Equipment and Precautions for

Firefighters:

Wear positive pressure self-contained breathing apparatus and full protective equipment. Do not breathe smoke or spray mist. Fight fire upwind. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

5.4 Additional Information:

National Fire Protection Association (NFPA) Ratings:

Health	1
Flammability	0
Reactivity	0
Special	N/A

Hazard Rating: 4 (severe), 3 (serious), 2 (moderate), 1 (slight), 0 (minimal.)

6. Accidental Release Measures

6.1 Personal Precautions:

Use Personal Protective Equipment specific in section 8. Remove contaminated clothing and wash affected skin areas with soap and water.

6.2 Environmental Precautions:

Keep spill out of open bodies of water and municipal sewers unless allowed under NPDES (National Pollutant Discharge Elimination System) permit.

6.3 Methods of Containment

Small Release:

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust).

Large Release:

Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into drains, sewers, or waterways.

6.4 Method for Cleanup:

Small Release:

After spill is contained sweep up and shovel into containers for disposal. Care should be taken to avoid causing dust of dried material to become airborne. Wash spill area with soap and water, repeat until area is clean.

Large Release:

Recover as much of the spilled product using portable pump and hoses. Treat remaining material as a small release (above).

7. Handling and Storage

7.1 Handling:

Avoid prolonged or repeated contact with the skin. Avoid contact with eyes. See section 8 for a complete list of PPE to wear when handling this product.

7.2 Storage:

Store product in original labeled container in a cool, dry place. Keep container tightly closed with no exposure to air when not in use. Protect from freezing.

8. Exposure Control/Personal Protection

8.1 Exposure Guidelines:

8.1.1 OSHA (PEL are 8-hour TWA) for Calcium Carbonate technical grade (MASK is 60% CaCO₃ and a liquid product):

Total Dust: 15 mg/m³

Respirable Fraction: 5 mg/m³

8.2 Engineering Controls:

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where commonly used.

8.3 Personal Protective Equipment (PPE):

8.3.1 Eye/Face Protection:

Goggles or face shield

8.3.2 Skin Protection:

Coveralls over long-sleeved shirt and long pants, gloves made of any waterproof material, shoes plus socks.

8.3.3 Respiratory Protection:

Where airborne exposure is likely, use NIOSH/ OSHA approved respiratory protection equipment for particulates and/or organic vapors.

8.3.4 Hygiene Considerations:

Wash hands thoroughly after handling this product before eating, drinking, chewing gum, using tobacco, or using the toilet. Change clothing immediately after finished handling this product.

9. Physical and Chemical Properties

9.1 Appearance: Thick white liquid

9.2 Odor: Sweet Spice

9.3 Odor Threshold: Not Available

9.4 pH: 8-10.8

9.5 Melting Point/Freezing Point: Data not available

9.6 Boiling Point: Data not available

9.7 Flash Point: 825 °C (1,517 °F, 1,098 K) for CaCO₃ Technical (This product is 60% CaCO₃)

9.8 Evaporation Rate: (Butyl Acetate=1) Data not available

9.9 Flammability: Not Flammable

9.10 Upper/Lower Flammability Limits: N/A

9.11 Vapor Pressure: Data not available

9.12 Vapor Density: (Air=1) Data not available

9.13 Solubility: 35%

9.14 Partition Coefficient: Data not available

9.15 Auto-ignition Temperature: Data not available

9.16 Decomposition Temperature: Data not available

9.17 Viscosity: Data not available

9.18 Specific Gravity: 1.627 [13.55 Lb. /Gal]

9.19 Storage life: At recommended conditions a minimum of 2 years

10. Stability and Reactivity

10.1 Reactivity:

Reacts with Acids

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions:

Reacts with acids releasing carbon dioxide gas

10.4 Conditions to Avoid:

Mixing with Acids

10.5 Incompatible Materials:

Acids

10.6 Hazardous Decomposition Products: None under normal conditions.

11. Toxicological Information

11.1 Oral: LD₅₀ > 5,000 mg/kg

11.2 Dermal: LD₅₀ > 5,000 mg/kg

11.3 Inhalation: Data not available

11.4 Eye: Not irritating to the eye

11.5 Chronic/Carcinogenicity:

Not listed as a carcinogen by OSHA, NTP or IARC

11.6 Teratology: Data not available

11.7 Reproduction: Data not available

11.8 Mutagenicity: Data not available

12. Ecological Information

12.1 Ecotoxicity:

Green Algae EC 50: Data not available

Honey Bee LD 50: Data not available

Avian LD 50: Data not available

Bobwhite Quail Dietary LC 50: Data not available

Mallard Duck LC 50: Data not available

12.2 Persistence & Degradability: Data not available

12.3 Bioaccumulative Potential: This product is not bioaccumulative

12.4 Mobility in Soil: No data available

12.5 Other Adverse Effects: None known at this time

13. Disposal Considerations

Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency. Consult International, Federal, State, and local agencies for disposal regulations.

14. Transport Information

14.1 Basic Shipping Description:

14.1.1 UN Number: Not listed

14.1.2 UN proper shipping name:

Not regulated by DOT

14.1.3 Class: Not Applicable

14.1.4 Packing Group: Not applicable

14.1.5 Hazardous Substance: No

14.2 Additional Information:

14.2.1 Other DOT Requirements: (not regulated by DOT)

14.2.1.1 Reportable Quantity: No

14.2.1.2 Placard(s): Not Applicable

14.2.1.3 Labels(s): Not Applicable

14.2.2 USCG Classification: Not applicable

14.2.3 International Transportation:

14.2.3.1 IMO:

Not Applicable

14.2.3.2 IATA:

Not Applicable

14.2.3.3 TDG (Canada):

Not Regulated by TDG

14.2.3.4 ADR (Europe):

Not regulated

14.2.3.5 ADG (Australia):

Not Listed

14.2.3.6 RR STCC:

281630

14.2.4 Emergency Response Guide:

Not listed

14.2.5 ERAP-Canada:

Not Regulated

14.2.6 Special Precautions:

This product is relatively heavy. Use precaution when stacking product during shipping.

15. Regulatory Information

15.1 U.S. Federal Regulations:

15.1.1 OSHA: This product meets the criteria of the Federal OSHA Hazard Communication Standard 29 CFR §1910.1200

15.1.2 TSCA: Calcium Carbonate is listed

15.1.3 CERCLA: Not Listed

15.1.4 SARA Title III:

15.1.4.1 Extremely Hazardous Substance (EHS): No

15.1.4.2 Section 312 (Tier II) Ratings:

Fire: No

Sudden Release: No

Reactivity: No

Immediate (acute): No

Delayed (chronic): No

15.1.4.1 Section 313 (FORM R): No

15.1.5 RCRA (Resource Conservation & Recovery Act) Status: Not Applicable

15.1.6 CAA (Hazardous Air Pollutant/HAP): Not Applicable

15.2 International Regulations:

15.2.1 Canada:

15.2.1.1 WHMIS: Not Listed

15.2.1.2 DSL/NDL: Listed in DSL

15.3 State Regulations:

CA Proposition 65: Not Listed

16. Other Information

16.1 Use of Substance/Preparation:

16.1.1 MASK O is a flowable micronized dispersion of calcium carbonate. It is designed for foliar application and is recommended for use as a protectant against sunburn and heat stress. This product can be applied to all crops that are not calcium sensitive. MASK O denatures the intensity of light and is intended for protection of agricultural crops, plants in nurseries and greenhouses.

16.1.2 MASK O may be applied through most conventional spray equipment at recommended use rates. See the product label for preparation and application instruction.

16.2 Abbreviations:

ACGIH: American Conference of Gov. Industrial Hygienists

ADG: Australian Dangerous Goods

ADR: International Carriage of Dangerous Goods by Road (Europe)

A.I.: Active Ingredient

CAA: Clean Air Act

CA Organic: California Organic Program

CAS: Chemical Abstracts Service Registry Number

CERCLA: Comprehensive Environmental Response

Compensation and Liability Act

DSL/NDL: Domestic/Non-Domestic Substance List

ERAP: Emergency Response Assistance Plan (Canada)

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

GHS: Globally Harmonized System of Classification

IATA: International Air Transportation Association

IMO: International Maritime Organization

NA: Not Applicable

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act

STCC: Standard Transportation Commodity Code

TDG: Transportation of Dangerous Goods (Canada)

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act

TWA: Time Weighted Average (8 hours)

USEPA: United States Environmental Protection Agency

WHMIS: Workplace Hazardous Materials information System

Revisions: This SDS was reformatted to comply with the new Hazard Communication Standard dated November 6th, 2015, by the Regulatory Department of OR-CAL Inc.

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