



Safety Data Sheet

Optimum Mineral Deposit Remover (MDR)

Conforms to OSHA CFR 29 1910.1200 and aligns to the United Nations Globally Harmonized System
Date of Revision: 06/09/2023 Revision: 01

Section 1 - Chemical Product and Company Identification

1.1 Product Name: Optimum Mineral Deposit Remover (MDR)

1.2 Synonym: Blend

1.3 Optimum Polymer Technologies, Inc., 5768 Distribution Drive, Memphis, TN 38141, 901.363.4955, Email: info@optimumcarcare.com

1.4 Recommended Use: Mineral Deposit Remover

1.5 RESTRICTIONS on USE **None**

1.6 Emergency Response Number: CHEMTREC 800-424-9300 US and Canada

International Emergency Telephone Number: +1-703-527-3887

1.7 24 Hour Emergency Assistance: 1-901-292-4324

Section 2 - Hazards Identification

2.1 GHS HAZARD

Hazard Classes

Eye Damage

Skin Corrosion

Acute Toxicity Oral

Specific target organs toxicity, single exposure

Hazard Categories

Category 1

Category 1B

Category 4

Category 3

2.2 Signal Word: **Danger**



Corrosive

Irritant

2.3 Pictograms:

2.4 Hazard Statements

PHYSICAL HAZARDS:

None

HEALTH HAZARDS

H302: Harmful if swallowed.

H314: Causes serious skin burns and eye damage.

H318: Causes serious eye damage.

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H336: May cause drowsiness or dizziness.

ENVIRONMENTAL HAZARDS:

None

PRECAUTIONARY STATEMENTS:

P102: Keep out of reach of children.
P261: Avoid breathing mist.
P264: Wash hands thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, clothing, and eye protection.

RESPONSE STATEMENTS:

301+P312+P331: IF SWALLOWED: Call POISON CENTER at **800-222-1222**. If you feel unwell, DO NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of water.

IF INHALED. Remove person to fresh air and keep comfortable for breathing.

P305+P310+P351: IF IN EYES: Rinse cautiously with water for at least 15 minutes. If present, remove contact lenses if easy to do so.

Immediately call POISON CENTER at **800-222-1222**.

P330: Rinse mouth.

P362+P363+P364: IF ON CLOTHING: Take off contaminated clothing and wash it before reuse.

STORAGE STATEMENTS:

P403+P233: Store in a well-ventilated place. Keep the container tightly closed.

P405: Store locked up.

DISPOSAL STATEMENTS:

P501: Dispose of content and container following local, regional, national, or international regulations.

2.5 Hazards not otherwise classified (HNOC) or not covered by GHS: None

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Section 3 - Composition / Information on Ingredients

3.1

CAS#	EC/ List #	Chemical Names	Percent	GHS Classification
7664-38-2	231-633-2	Phosphoric Acid 75%	10-20	Skin Corr. 1B H314
61791-26-2	932-738-2	Amines, tallow alkyl, ethoxylated	7-9	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315
71486-82-3	275-530-0	Ethanol, 2,2'-iminobis-, N-[3-(C12-15-alkyloxy)propyl] derivs., N-oxides	2-5	Not Classified
61790-85-0	500-149-6	Amines, N-tallow alkyltrimethylenedi-, ethoxylated	1-2	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315
67-63-0	200-661-7	Propan-2-ol	1-2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
68131-39-5	500-195-7	Alcohols, C12-15, ethoxylated	.05-2	Aquatic Acute 1 H400, Aquatic Chronic 3 H412
7722-84-1	231-765-0	Hydrogen peroxide	.01-.03	Skin Irrit. 2 H315, Eye Irrit. H319
7732-18-5	231-791-2	Water	69-70	Not Classified

Note: No Fragrance Allergens in this blend.

3.3 Trade Secret Provision and Chemical Concentration Disclosure: Per OSHA and GHS Regulations, we have withheld specific percentages of the chemicals in this mixture. The chemical concentrations have been disclosed as a range and apply to the hazards as identified in this Safety Data Sheet.

Section 4 - First Aid Measures

4.1 Eye: Contact with the eyes can cause serious damage. Symptoms may include discomfort or pain and redness.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2 Skin: Contact can cause skin burns.

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Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately and wash clothing before reuse.

4.3 Ingestion: Causes headache, gastrointestinal pain, nausea.

Ingestion: Do NOT induce vomiting. Get medical aid immediately.

4.4 Inhalation: Can produce headaches, dizziness, nausea, and impaired vision.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult and **IF TRAINED**, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation without protection.

4.5 After first aid, get appropriate paramedic, or community medical support. The severity of outcome following exposure may be more related to the time between exposure and treatment, rather than the amount of the exposure. Therefore, there is a need for rapid treatment of any exposure.

4.6 Note to Physicians: If you determine that a medical emergency exists and the specific chemical identity is necessary for emergency or first-aid treatment, we will immediately disclose the specific chemical identity. Call CHEMTREC 800-424-9300 or 703-527-3887. We will require a written statement of need and confidentiality agreement, per OSHA's Trade Secret Regulations as soon as circumstances permit. In non-emergency situations, we will, upon written request, disclose a specific chemical identity.

Section 5 - Fire-Fighting Measures

5.1 General Fire Hazards: NOT FLAMMABLE. Use water to cool containers exposed to fire.

5.2 Hazardous Combustion Products: Avoid fumes of burning products.

5.3 Extinguishing Media: Carbon dioxide, dry chemical, foam.

5.4 Fire Fighting Equipment/Instructions: Firefighters should wear full-face, self-contained breathing apparatus, and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

Section 6 - Accidental Release Measures

6.1 Spill /Leak Procedures: Avoid breathing mist.

6.2 Spills: Contain and collect spillage with absorbent material such as sand, earth, vermiculite, or diatomaceous earth and place in a container for disposal.

Section 7 - Handling and Storage

7.1 Handling Precautions: Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid ingestion and contact with eyes, skin, or clothing. Avoid inhalation.

7.2 Storage Requirements: Keep container tightly closed. Store in a well-ventilated place.

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Section 8 - Exposure Controls / Personal Protection

8.1

Chemical Names	ACGIH- TLV	OSHA - PEL
Phosphoric Acid 75%	1mg/m3 TWA	1mg/m3 TWA
Amines, tallow alkyl, ethoxylated	None Shown	None Shown
Ethanol, 2,2'-iminobis-, N-[3-(C12-15-alkyloxy)propyl] derivs., N-oxides	None Shown	None Shown
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	None Shown	None Shown
Propan-2-ol	200ppm TWA	400ppm TWA
Alcohols, C12-15, ethoxylated	None Shown	None Shown
Hydrogen peroxide		

8.2

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

NOTE: TWA Means "TWA is the employee's average airborne exposure in any 8-hour work shift of a 40-hour workweek which shall not be exceeded.

8.3 Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below TLV/PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.4 Contaminated Equipment: Separate contaminated work clothes from street clothes and launder before reuse. Remove this material from your shoes and clean personal protective equipment.

8.5 Personal protective equipment

8.5.1 Respiratory protection

Where risk assessment shows, air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.5.2 Hand protection

Handle with gloves. Gloves must be inspected before use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use. Select gloves tested to the **ANSI/ISEA 105-2011** or European EN374 Standard.

Full contact: Viton

Splash contact: Viton

8.5.3 Eye protection

Safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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8.5.4 Skin and body protection

Impervious protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.6 Protective Clothing Pictograms



Splash Goggles

Gloves

Dust Respirator

Section 9 - Physical and Chemical Properties

9.1

Physical State: Liquid

Appearance: Hazy Clear

Odor: Mild

Vapor Pressure: Not Available

Vapor Density (Air=1): Not Available

Specific Gravity (H₂O=1,): Not Available

Relative Density: Not Available

Odor Threshold: Not Available

Flammability (solid, gas): Not Applicable

Evaporation rate: Not Available

Partition coefficient octanol/water: Not Available

Water Solubility: Soluble

Flash Point: Not Available

Boiling Point: 316°F, (158 °C)

Freezing/Melting Point: 32°F, 0 °C

Autoignition Temperature: Not Available

LEL: Not Available

UEL: Not Available

Viscosity: 2500 cps

Decomposition temperature: Not Available

pH: Not Available

Grams VOC less water: 15

Section 10 - Stability and Reactivity

10.1 Stability: Stable under ordinary conditions of use and storage.

10.2 Polymerization: Hazardous polymerization has not been reported.

10.3 Chemical Incompatibilities: Strong oxidizing agents.

10.4 Hazardous Decomposition Products: Carbon monoxide.

10.5 Conditions to Avoid: Avoid freezing temperatures over 104°F (40°C).

Section 11- Toxicological Information

11.1

Acute Toxicity Estimate for this blend (ATE)

ATE (Oral): 1530mg/kg.

ATE (Dermal): 2500 mg/kg.

ATE (Inhalation vapor/mist): No indication of significant effect in humans.

11.1.1 OECD Guideline Test results found in the European Chemical Agency Data Base shows that components of this product to cause Oral Toxicity.

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11.11.2 OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to be Inhalation Toxicity.

11.11.3 OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to Dermal Toxicity.

11.2 Route of Entry: Inhalation, Ingestion, Skin and Eye Contact

11.3 Aspiration Hazard: European Chemical Agency Data Base shows that no components of this product may be fatal if swallowed and enters airways.

11.4 Mutagenicity: OECD Guideline Test results found in the European Chemical Agency Database show no components of this product to cause genetic defects.

11.5 Skin Corrosion/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that components of this product to cause skin burns.

11.6 Serious Eye Damage/Irritation: OECD Guideline Test results found in the European Chemical Agency Data Base shows that components of this product to cause serious eye damage.

11.7 Reproductive toxicity: OECD Guideline Test results found in the European Chemical Agency Database show no components of this product to cause damage to fertility or the unborn child.

11.8 Skin Sensitization OECD Guideline Tests results found in the European Chemical Agency Database show no components of this product to cause skin sensitivity.

11.9 Respiratory Sensitization OECD Guideline Tests results found in the European Chemical Agency DataBase show no components of this product to cause respiratory sensitivity.

11.10 Specific Target Organ Toxicity (Single Exposure): Skin and Eyes.

11.11 Target Organ Toxicity (Repeated Exposure): Skin and Eyes.

11.12 Signs and Symptoms: Include skin and eye discomfort or pain and redness.

11.13 Carcinogenicity: OECD Guideline Test results found in the European Chemical Agency Data Base shows that no components of this product to cause cancer.

Phosphoric Acid 75%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%
Amines, tallow alkyl, ethoxylated	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%
Ethanol, 2,2'-iminobis-, N-[3-(C12-15-alkyloxy)propyl] derivs., N-oxides	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%

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Propan-2-ol	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%
Alcohols, C12-15, ethoxylated	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%
Hydrogen peroxide	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%	No component of this product present at levels greater than or equal to 0.1%

Section 12 - Ecological Information

12.1

Product Name	Results	Species	Exposure
Phosphoric Acid 75%	None shown		
Amines, tallow alkyl, ethoxylated	LC50 0.99mg/l	Fish	96 hours
Ethanol, 2,2'-iminobis-, N-[3-(C12-15-alkyloxy)propyl] derivs., N-oxides	In high concentrations, this product may be harmful to both terrestrial and aquatic plant or animal life		
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	None shown		
Propan-2-ol	LC50 11130 mg/l	Fish	96 hours
Alcohols, C12-15, ethoxylated	NOEC 0.66 mg/l	Fish	96 hours
Hydrogen peroxide	LC50 10 mg/l	Fish	96 hours

Toxicity: Do not release to water: May release phosphates, which will result in algae growth, increased turbidity, and depleted oxygen in the marine environment; at extremely high concentrations and quantities, this may be hazardous to fish or other aquatic organisms.

12.2 Mobility: Inconclusive technical data.

12.3 Persistence/degradability: Inconclusive technical data.

12.4 Bioaccumulation: Inconclusive technical data.

12.5 Other adverse effects: Inconclusive technical data.

Section 13 - Disposal Considerations

13.1 Disposal: DO NOT REUSE EMPTY CONTAINER! The container should be emptied before discard. Contact a licensed contractor for detailed recommendations. Follow applicable federal, state, and local regulations.

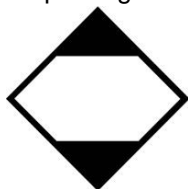
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Section 14 - Transport Information

14.1 US Transport Information

Ship in 1 gallon or less containers.



Use marking when shipping as a limited quantity ground in the US

DOT Transport Limited Quantity/Consumer Commodity

Inner packaging not over

5.0L (1.3 gallons) net capacity each.

Outer Package not over 30kg (66lbs) each

Section 15 - Regulatory Information

15.1 US Regulations

US. Toxic Substances Control Act: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

Toxic Release Inventory (TRI): This product doesn't contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know- Act of 1986 (40 CFR 372).

CERCLA Hazardous Substances and corresponding RQs: Phosphoric Acid 5000lbs,

SARA Community Right-to-Know Program: All components in this blend.

Clean Water Act: None

Clean Air Act: None

OSHA: All ingredients are regulated by 29 CFR 1910.1200.

State Regulations

California prop. 65



WARNING This product can expose you to chemicals, including Ethylene Oxide CAS # 75-21-8, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemicals on the following State Right to Know Lists:

Massachusetts: All components of this product are on the Massachusetts Inventory or are exempt from Inventory requirements

New Jersey All components of this product are on the New Jersey inventory or are exempt from Inventory requirements

Pennsylvania: All components of this product) are on the Pennsylvania Inventory or are exempt from Inventory requirements.

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15.4 International Regulations:

Australian Inventory of Chemical Substances: All components of this product are on the Inventory or are exempt from Inventory requirements.

National Existing Chemical Inventory in Taiwan: All components of this product are on the Inventory or are exempt from Inventory requirements.

Philippine Inventory of Chemicals and Chemical Substances All components of this product are on the Inventory or are exempt from Inventory requirements.

China Existing Chemical Inventory: All components of this product are on the Inventory or are exempt from Inventory requirements.

Section 16 - Other Information

16.1 Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above is furnished on the condition that the person receiving them shall make their determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.

16.2 References: CHEMpendium database of the Canadian Centre for Occupational Health and Safety (CCOHS), JJ Keller online, European Chemical Agency Data Base, and MSDS and SDS of chemicals in this mixture.

16.4 SDS Preparation Date 06/09/2023

SDS Previous Issue Date: 11/25/2014

SDS Revision Date: 07/28/2020 Revised Sections: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

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