

SAFETY DATA SHEET

Restore Sheen

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

DATE: 03/18/2015 / Supersedes Revision: n/a

Manufacturer:

PDQ Manufacturing, Inc.
201 Victory Circle
Ellijay, GA USA 30540
Phone: (706) 636-1848
Website: www.pdqonline.com

Distributor:

Memtec Services, In.c
182 S. Peiffer Road
Wellsville, PA 17365
Phone: (717) 292-9353

EMERGENCY CONTACT: Chemtrec, Reference CCN203605

Phone: (800) 424-9300 (collect calls accepted) / International: (703) 527-3887

Product Name: Restore Sheen

ID Code: 4698

Product Category: Acidic Detergent

SECTION 2: HAZARD(S) IDENTIFICATION

Skin Corrosion/Irritation, Category 1B

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

Corrosive To Metals, Category 1

Aquatic Toxicity (Chronic), Category 3



GHS Signal Word: DANGER

GHS Hazard Phrases:

H271 - May cause fire or explosion; strong oxidizer.

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 - Keep away from combustible materials.

P221 - Take any precaution to avoid mixing with combustibles.

P234 - Keep only in original container.

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P283 - Wear fire/flame resistant/retardant clothing.

GHS Response Phrases:

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advise. Have product container or label with you when calling poison control center or physician.

P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P310 - Immediately call a POISON CENTER or doctor/physician.

P363 - Wash contaminated clothing before reuse.

P371+380+375 - In case of major fire and large quantities: evacuate area and fight fire remotely due to the risk of explosion.

P390 - Absorb spillage to prevent material damage.

GHS Storage and Disposal Phrases:

P405 - Store locked up.

P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.

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Hazard Rating System:

HMIS

Health: 2

Flammability: 0

Physical: 2

PPE: B

Potential Health Effects (Acute and Chronic): Chronic: None.

Inhalation: Causes chemical burns to the respiratory tract. May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact: Causes skin burns. Causes skin irritation.

Eye Contact: Causes eye burns.

Ingestion: Causes gastrointestinal tract burns. May be harmful if swallowed. Additional Information. RTECS: QJ6950000.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Hazardous Components (Chemical Name) | Concentration |
|-----------|--|---------------|
| 7664-38-2 | Phosphoric acid {Orthophosphoric acid} | 20.0 -40.0 % |
| 7697-37-2 | Nitric acid {Hydrogen nitrate} | 1.0 -5.0 % |
| 6419-19-8 | Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-} | 1.0 -5.0 % |

SECTION 4: FIRST-AID MEASURES

Emergency and First Aid Procedures: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In Case of Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Note to Physician: None known.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: NP Method Used: Estimate

Explosive Limits: LEL: UEL:

Autoignition Pt: NP

Suitable Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Wear self contained breathing apparatus for fire fighting if necessary. Further information. Material will not burn.

Flammable Properties and Hazards:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental Precautions: Do not let product enter drains. Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Do not let this chemical enter the environment. Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Environmental precautions. Do not let product enter drains. Methods for cleaning up. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

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SECTION 7: HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. For precautions see section 2. Avoid contact with skin and eyes.

Precautions To Be Taken in Storing: Store in a cool, dry place. Store in a tightly closed container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|-----------|--|--------------------------|---|--------------|
| 7664-38-2 | Phosphoric acid {Orthophosphoric acid} | PEL: 1 mg/m ³ | TLV: 1 mg/m ³ STEL: 3 mg/m ³ | |
| 7697-37-2 | Nitric acid {Hydrogen nitrate} | PEL: 2 ppm | TLV: 2 ppm STEL: 4 ppm | |
| 6419-19-8 | Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-} | | | |

Respiratory Equipment (Specify Type): Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. There are no special ventilation requirements.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental Exposure Controls: Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Clear colorless to very light tan liquid

Surfactant odor.

Melting Point:

Boiling Point:

Autoignition Pt: NP

Flash Pt: NP

Explosive Limits: LEL: UEL:

Specific Gravity (Water = 1): ~ 1.2

Vapor Pressure (vs. Air or mm Hg):

Vapor Density (vs. Air = 1):

Evaporation Rate:

Solubility in Water: Complete

Viscosity: Thin

pH: < 2.0

Percent Volatile:

VOC / Volume:

SECTION 10: STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Incompatible materials.

Incompatibility – Materials To Avoid: Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics. Alkali metals, Organic materials, acetic anhydride, Acetonitrile, Alcohols, acrylonitrile, Ammonia, Crotonaldehyde. halogenated hydrocarbons, Acids. Bases, Metals, Hexalithium disilicide, Hydrogen peroxide, ketones, Water. Fluorine. Amines, Thiols. Cadmium, bromine, Copper, hydrazine, Hydrazinium nitrate, Nitro compounds, Cyanides. Phosphorus trihydride (phosphine) Diphosphine, halides, Organic halides, Polyethers, methyl vinyl ether, Chlorine Bleach.

Hazardous Decomposition Or Byproducts: Phosphine, oxides of phosphorus, hydrogen gas. Other decomposition products: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid -Hazardous Reactions: Product will not undergo polymerization.

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SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: Neurotoxicity: Other Studies: Germ cell mutagenicity. Reproductive toxicity. Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure: Aspiration hazard:

Irritation or Corrosion: Skin corrosion/irritation. No data available. Serious eye damage/eye irritation:

Sensitization: No data available.

Carcinogenicity/Other Information: CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|-----------|--|------|------|-------|------|
| 7664-38-2 | Phosphoric acid {Orthophosphoric acid} | n.a. | n.a. | n.a. | n.a. |
| 7697-37-2 | Nitric acid {Hydrogen nitrate} | n.a. | n.a. | n.a. | n.a. |
| 6419-19-8 | Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-} | n.a. | n.a. | n.a. | n.a. |

SECTION 12: ECOLOGICAL INFORMATION

General Ecological Information: Environmental: Not regulated under U.S. Department of Transportation regulations (29 CFR) Physical: No information available. Other: Do not empty into drains.

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed. Product. Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as hazardous waste in compliance with local and national regulations. Contaminated packaging. Observe all federal, state, and local environmental regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

SECTION 14: TRANSPORTATION INFORMATION (DOT/UN CLASSIFICATION)

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (contains Nitric acid)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN3264

Packing Group: II



SECTION 15: REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|-----------|--|--------------|-------------|--------------|
| 7664-38-2 | Phosphoric acid {Orthophosphoric acid} | No | Yes 5000 LB | No |
| 7697-37-2 | Nitric acid {Hydrogen nitrate} | Yes 1000 LB | Yes 1000 LB | Yes |
| 6419-19-8 | Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-} | No | No | No |

CAS #
7664-38-2
Hazardous Components (Chemical Name)
Phosphoric acid {Orthophosphoric acid}

7697-37-2
Nitric acid {Hydrogen nitrate}

6419-19-8
Methylene phosphonic acid {Phosphonic acid, nitrilotris(methylene)tris-}

Other US EPA or State Lists

CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
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SECTION 16: OTHER INFORMATION

Revision Date: 03/18/2015

Preparer Name: Regulatory Affairs

Company Policy or Disclaimer: The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.