

SAFETY DATA SHEET

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| GLASS RESTORATION TREATMENT | <i>SDS Number : GR-828</i> | <i>Revision Date: 05/29/2015</i> |
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1. PRODUCT AND COMPANY IDENTIFICATION:

Product Name: GLASS RESTORATION TREATMENT
 Product Code: GR-828
 Product Use: Heavy Duty Window Scale Remover
 Synonyms: Water Based Organic Acid Glass Descaler
 Chemical Formula: Mixture of substances listed below
 with nonhazardous additions
 Restrictions: Institutional, Commercial, Retail and
 Industrial Cleaning Use Only




Manufacturer: Surtec, Inc.
 1880 N. MacArthur Dr
 Tracy, CA 95376
 209.820.3700
 Toll Free 800.877.6330

Emergency contact: Chemtrec 800.424.9300
 CCN No. 21541

2. HAZARD IDENTIFICATION:

GHS CLASSIFICATION:

| <u>HEALTH</u> | <u>ENVIRONMENTAL</u> | <u>PHYSICAL</u> |
|--|--|--|
| <i>Serious Eye Damage/Eye Irritation: Category 1</i> | <i>Acute Toxicity: None Known Chronic Toxicity: None Known</i> | <i>Corrosive to Metals: Category 1</i> |
|  | <u>Signal Word:</u> <i>Danger</i> | |
| <p><u>Hazard Statements</u> Causes serious eye damage Harmful if swallowed May be irritating to the skin.</p> | | |
| <p><u>Precautionary Statements</u> Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist or spray.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water for several minutes. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or physician. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.</p> <p>Store in a closed container. Store in original or corrosion resistant container. Keep cool. Dispose of contents/container in accordance with local regulation.</p> | | |

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3. COMPOSITION/INFORMATION ON INGREDIENTS:

| INGREDIENT | CAS NO. | PERCENT | HAZARDOUS |
|---|--------------|---------|-----------|
| PROPRIETARY ORGANIC ACID SALT SOLUTION | TRADE SECRET | 8 – 10% | YES |
| UREA MONOHYDROCHLORIDE | 506-89-8 | 2 - 4% | YES |
| CARBAMIDE DIHYDROGEN SULFATE | 21351-39-3 | 4 – 8% | YES |
| PROPRIETARY SURFACTANT BLEND | TRADE SECRET | 3 – 5% | YES |
| Exact Percentages are being withheld as trade secret information. | | | |

4. FIRST-AID MEASURES:

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Skin Contact: Remove immediately all contaminated clothing. Rinse skin with water for several minutes. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion: If ingested, rinse mouth. If material has been swallowed and victim is conscious, give water to drink. Do NOT induce vomiting. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.

5. FIRE-FIGHTING MEASURES:

Fire Extinguishing media: Use dry chemical, carbon dioxide or water spray. For larger fires use regular foam, dry chemical, carbon dioxide or water spray. Move containers away from fire area if it can be done without risk. From a safe distance and keeping upwind, apply flooding amounts of water to sides of container exposed to fire for cooling purposes until well after the fire is extinguished. (2012 Emergency Response Guidebook Guide #154)

Hazards during fire-fighting:

Containers may rupture when exposed to extreme heat. In fire conditions: carbon monoxide (CO), carbon dioxide (CO₂) nitric oxides (NO_x); and hydrofluoric and hydrochloric acid gases may be produced.

Protective equipment for fire-fighting:

Wear NFPA-approved self-contained breathing apparatus, helmet, hood, boots and gloves.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:

Use recommended personal protective clothing and equipment. To prevent slipping, do not walk through spilled material.

Environmental precautions:

Follow all Federal, State and Local regulations when storing and disposing of substances. Do not allow material to run off work area. Material should be absorbed, collected and disposed of in accordance with regulations. Keep product from entering storm drains. Consult local and federal guidelines for proper disposal of these materials.

Cleanup:

- For small amounts of released material: Mop or vacuum up then transfer to suitable container for disposal. - For large amounts of released material: Dike around spilled material to contain. Spilled material may be mopped or vacuumed up, then transferred to plastic containers for disposal.

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7. HANDLING and STORAGE:

Handling:

General advice - No specific measures are necessary provided product and recommended protective clothing/equipment are used correctly. Do not mix with other chemicals. This is a commercial product, not intended for home use. Keep out of reach of children.

Storage:

General advice - Protect against physical damage. Store in tightly closed containers in a cool, well ventilated area. Do not allow product to freeze.

Shelf Life:

12 months minimum

8. EXPOSURE CONTROLS and PERSONAL PROTECTION:

Advice on system design:

Provide local exhaust ventilation to control vapors/mist for published exposure limits.

Personal protective equipment (HMIS rating 'B'):

Eye protection: Wear safety glasses with side shields or safety goggles to prevent exposure or full face shield if splash hazard exists.

Skin protection: Chemical-resistant gloves. Wear appropriate protective clothing to prevent possible skin contact.

Respiratory protection: Do not breathe mists or spray. Use proper NIOSH-OSHA respirator if ventilation is inadequate.

General safety and hygiene measures: Exercise stringent hygiene practices to minimize exposure.

If contact occurs, wash any body part with soap and water immediately. Wash hands after use, and before eating, drinking or smoking.

Other protective measures:

Nearby running water on the job site is necessary, should an accident occur.

Exposure Guidelines:

ACGIH TLV: None

STEL: None

OSHA PEL: None

9. PHYSICAL and CHEMICAL PROPERTIES:

| | | | |
|-----------------------------|--------------------------|----------------------------------|--------------------------|
| Appearance: | Clear Amber Liquid | Flash Point: | > 200°F |
| Odor: | Mild | Upper/Lower Flammability Limits: | No information available |
| pH value: | 0.8 +/- 0.2 | Relative Density (water): | 1.07 |
| Regulatory VOC: | < 0.1% by weight | Auto-Ignition Temperature: | No information available |
| Specific gravity: | 1.07 (H2O = 1) | Decomposition temperature: | No information available |
| Solidification temperature: | No information available | Partition Coefficient | No information available |
| Freezing/Melting point: | No information available | Odor Threshold | No information available |
| Boiling point: | No information available | Viscosity: | < 10 cps. |
| Vapor density: | No information available | Partition Coefficient | No information available |
| Vapor pressure: | No information available | | |
| Evaporation Rate: | No information available | | |
| Solubility in water: | 100% | | |

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10. STABILITY and REACTIVITY:

Conditions to avoid:

Excessive heat or flame.

Substances to avoid:

Strong bases (alkalies), oxidizers (e.g., bleach), chlorates, nitrates, sulfuric acid.

Hazardous reactions:

Product is chemically stable. Reaction with strong bases (alkalis) will generate heat. Contact with hypochlorites (bleach), sulfides or cyanides will liberate toxic gases.

Decomposition or By-products:

In fire conditions: carbon monoxide (CO), carbon dioxide (CO₂) nitric oxides (NO_x) and hydrochloric acid.

Corrosion to metals:

Minimize contact with aluminum, aluminum alloys, zinc and zinc alloys.

11. TOXICOLOGY INFORMATION:

Acute Toxicity (Symptoms):

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach.

Eye Contact: May cause serious eye damage. Pain, irritation, watering and redness.

Skin Contact: May cause mild skin irritation.

Inhalation: May be mildly irritating to mouth, nose and throat.

Chronic Toxicity:

Other information: No carcinogenic substances as defined by ACGIH, IARC, NTP and/or OSHA.

12. ECOLOGICAL INFORMATION:

Biodegradation:

Test method: Unspecified

Analysis method: Unspecified

Degree of elimination: Expected to be biodegradable.

Environmental toxicity:

Acute and prolonged toxicity to fish: Not Established

Toxicity to microorganisms: Not Established

Other ecotoxicological advice: Not Established

13. DISPOSAL CONSIDERATIONS:

Waste disposal of substance: Dispose of in accordance with all Federal, State and Local regulations when storing and disposing of substances. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA (EPA regulations for hazardous waste).

Container disposal: Dispose of in a licensed facility in accordance with local regulations.

RCRA:

Unspecified.

14. TRANSPORTATION INFORMATION:

DOT:

Proper Shipping Name: COMPOUND CLEANING LIQUID (NON-HAZARDOUS)

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15. REGULATORY INFORMATION:

Federal Regulations:

Registration status:

TSCA, US: All components are listed or exempt.

SARA hazard category (EPCRA 311/312): Acute health hazard

SARA TITLE III, SECTION 313:

CAS Number: _____ Chemical Name:

None

State Regulations:

Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm

CAS Number: _____ Chemical Name:

None

16. OTHER INFORMATION:

NFPA Rating:

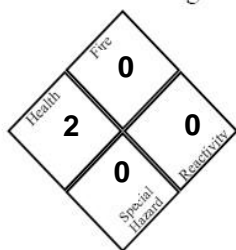
Health: 2 Fire: 0 Reactivity: 0 Special Hazard: none

HMIS III Rating:

Health: 2 Flammability: 0 Physical Hazard: 0
Personal Protection: B (safety glasses with side shields and chemical-resistant gloves)

Both NFPA and HMIS III rating systems use a numbering scale that ranges from 0 to 4 to indicate the degree of hazard. A value of zero means the substance possesses no hazard while a value of four indicates high hazard.

NFPA Rating



HMIS Rating

| | |
|---------------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | H |

Prepared by: Surtec, Inc. 05/29/15 **Revision No.:** Original

Local Contact Information:

Surtec, Inc.

209-820 3700; Toll Free 800-877-6330 (8 a.m. to 5 p.m., M-F, PST)

www.surtecsystem.com

Notice: The information provided is accurate to the best of our knowledge and is offered in good faith. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in specific context of the intended use and determine whether they are appropriate.

Warranty: This is a proprietary SURTEC product, warranted to be of uniform quality within our stringent manufacturing tolerances. As no control is exercised over product use, no warranty is made as to the effects of such use (neither expressed nor implied). Obligation of the seller and manufacturer under this warranty shall be limited to a refund of the purchase price of that portion of the material proven to be defective. The user assumes all other risk and liability resulting from uses of this product. Contact SURTEC with any questions regarding this policy.