

Safety Data Sheet24 Hour Emergency Phone: **CHEMTREC 1-800-424-9300****Section 1. Product & Company Identification**Product Name: **Resolution™ UN**Product Number: **1272**

Product Description / Use: Liquid Alkaline Detergent for use in vehicle wash applications.

Manufacturer: Cleaning Systems, Inc., 1997 American Blvd., P.O. Box 5606, De Pere, WI 54115-5606
 Phone: 1-920-337-2175, Fax: 1-920-337-9410, www.cleaningsystemsinc.com

Section 2: Hazards IdentificationHazard Class: **1A Corrosive**Signal Word: **Danger**Hazard Statement(s): **H314: Causes severe skin burns and eye damage.**Precautionary Statement(s): **P260: Do Not Breathe Spray. P264: Wash exposed area thoroughly after handling. P280: Wear protective gloves/eye protection.**Precautionary Statement Response: **P303 + P361 + P353: IF ON SKIN (or hair) Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Precautionary Statement Storage: **P405: Store locked up.**Precautionary Statement Disposal: **P501: Dispose of container to recycling after rinsing.****Section 3: Composition / Information on Ingredients**

Ingredient(s)	CAS #	EC #	Wt. %	Classification
Sodium Metasilicate	6834-92-0	229-912-9	1-5	1B Corrosive STOT SE3
EDTA	64-02-8	200-573-9	1-5	Acute Tox. 4
Surfactant Blend	Mixture	Mixture	5-10	Acute Tox. Oral 4, Eye Dam. Irr. 1

Section 4: First Aid Measures

Eyes: Flush with clear water for at least 15 minutes. Get immediate medical attention.

Skin: Rinse well with water. Remove contaminated clothing.

Ingestion: Give water if conscious. Do not induce vomiting, although vomiting may occur naturally. Get immediate medical attention.

Inhalation: (Harmful exposure is unlikely) Move to fresh air. If irritation persists, get medical attention.

Section 5: Fire Fighting Measures

Product will not burn. No known hazardous decomposition products.

Unusual Fire & Explosion Hazards: Upon contact with dusts of Al, Sn or Zn, may produce Hydrogen gas, which is flammable. Fire

Fighting Procedures: Appropriate for surrounding materials.

Section 6: Accidental Release Measures

Keep spills away from storm drains, surface water and soil.

Spills and Leaks: Small spills - Rinse to drain.

Large spills - Contain for reclamation or disposal. Neutralize with dilute acid, preferably acetic acid.

Caution: Spills of this material may cause floor to become slippery

Section 7: Handling and Storage

Store in original container at temperatures below 120°F.

Product is a detergent for use in commercial vehicle wash applications.

Section 8: Exposure Controls / Personal ProtectionIngredient Exposure LimitsOSHA PELACGIH TLV

Sodium Hydroxide

2 mg/m³2 mg/m³Personal Protection

Eyes: Wear Chemical Goggles

Skin: Neoprene Gloves. Rubber Apron if greater exposure is likely.

Respiratory: Good General Ventilation. Respirator not normally required

Avoid being sprayed by diluted product in the vehicle wash.

Section 9: Physical and Chemical Properties

Appearance: Clear, fluorescent green colored liquid detergent.

Odor: Mild odor.

Odor Threshold: Not Determined.

pH full strength: 13.0

Freezing Point: Near Water.

Initial Boiling Point: Near Water.

Flash Point: Will Not Burn.

Flammability: Will Not Burn.

Evaporation Rate: Not determined, similar to water.

Vapor Pressure: Not Determined.

Vapor Density: Not Determined.

Specific Gravity: 1.07

Solubility in Water: Complete.

Partition coefficient: Not Determined.

Auto-Ignition Temperature: Not Applicable.

Decomposition Temperature: Not Applicable.

% Volatile (w/w): >75, mostly water

Section 10: Stability and Reactivity

Stability: This is a stable material.

Conditions to Avoid: None Known.

Materials to Avoid: Strong Acids. Dusts of Aluminum, Tin, or Zinc.

Hazardous Polymerization will NOT occur.

Section 11: Toxicological Information

Routes of Entry / Exposure

Skin Contact

Skin Absorption

Eye Contact

Inhalation (most likely when diluted with water and sprayed on vehicles)

Ingestion

Acute toxicity: No data is available on this mixture.

Skin Corrosion / Irritation: This product is Corrosive to skin with exposures of 1 hour.

Serious Eye damage / Irritation: This product is Corrosive to eyes with significant exposure.

Respiratory of Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available on this mixture. No indication from ingredients.

Carcinogenicity: No data available on this mixture. No indication from ingredients.

Reproductive Toxicity: No data available on this mixture. No indication from ingredients.

STOST-Single Exposure: No data available on this mixture. No indication from ingredients.

STOST-Repeated Exposure: No data available on this mixture. No indication from ingredients.

Aspiration Hazard: No data available.

For information on ingredients, write to the address listed in Section 16 of this MSDS

Section 12: Ecological Information

Ecological Toxicity: No data is available on this mixture.

Biodegradability: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. This product does contain Phosphates.

Section 13: Disposal Considerations

Follow all Federal, State, and Local Regulations appropriate for this material.

Neutralize pH with dilute acid before disposal.

Wastewater resulting from use of this product should be directed to a properly operating wastewater treatment facility.

Section 14: Transportation Information

Hazardous Material Class: Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Metasilicate Solution) Class 8, PG III

UN Number: UN 3266

Section 15: Regulatory Information

EPA SARA Title III Section 312 (40CFR 370) Hazard Classification of ingredients: Acute Health Hazard.

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16: Other Information

Hazard & Precautionary Statements in Section 2 are taken from the European CLP Directive.

Prepared by: Richard Martens, Chemist, Cleaning Systems, Inc.

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Phone: 1-920-337-2175

Supersedes: New GHS format

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