

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ZAP Restore 4, 051M1702

**Manufacturer/Supplier:**  
**Address:**

**Telephone:**  
**Emergency:**

## SECTION II - INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt%</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>LD<sub>50</sub></u>
Urea monohydrochloride	506-89-8	7-10	Not applicable	Not applicable	1121 mg/kg oral, rat

## SECTION III - HAZARDS IDENTIFICATION

**Route of Entry:** Eye, Skin contact, Ingestion.

**Potential Health Effects:**

**Eye:** May cause severe irritation.

**Skin:** May cause irritation.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**Chronic Effects/Carcinogenicity:**

**Carcinogenicity:** No ingredients listed by ACGIH, IARC or NTP.

## SECTION IV - FIRST AID MEASURES

**Eye:** Immediately flush with water for 15 minutes. Remove contact lenses, if applicable, and continue rinsing. Obtain medical attention if irritation persists.

**Skin:** Flush with water. Wash with soap and water. Obtain medical attention if irritation persists. Wash contaminated clothing well before reuse.

**Inhalation:** Not a normal route of exposure. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Obtain medical attention immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

## SECTION V - FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Flash Point (deg C, TCC):** None.      **LEL:** Not applicable      **UEL:** Not applicable

**Hazardous Combustion Products:** May include and are not limited to oxides of carbon.

**Means of Extinction:** Treat for surrounding material.

**Special Fire Hazards:** Fire fighters should wear self-contained breathing apparatus.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Before attempting cleanup, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

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**SECTION VII - HANDLING AND STORAGE**  
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**Storage and Handling Requirements:** Keep out of reach of children. Store in closed container away from incompatible materials.

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**SECTION VIII- EXPOSURE CONTROLS/PERSONAL PROTECTION**  
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**Protective Gloves:** Rubber.

**Eye Protection:** Safety glasses.

**Respiratory Protection:** Not normally required.

**Other Protective Equipment:** As required by employer code.

**Engineering Controls:** General ventilation normally adequate.

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**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**  
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**Boiling Point (deg C):** ~100

**Vapour Density (Air = 1):** Not available

**Solubility in Water:** Complete

**pH (as supplied):** 0.5-1.5

**Physical State:** Liquid

**Appearance and Odour:** Clear/slight, wintergreen fragrance

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**SECTION X - STABILITY AND REACTIVITY**  
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**Conditions for Chemical Instability:** Stable.

**Incompatible Materials:** Caustics, oxidizers, reducers.

**Reactivity, and Under What Conditions:** Not available.

**Hazardous Decomposition Products:** May include and are not limited to oxides of carbon when heated to decomposition.

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**SECTION XI - TOXICOLOGICAL INFORMATION**  
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This product may cause severe irritation to the eyes.

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**SECTION XII - ECOLOGICAL INFORMATION**  
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**Biodegradability:** Biodegradable

**Aquatic Acute Toxicity:** >100 mg/L (rainbow trout, 96 hours)

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**SECTION XIII - DISPOSAL CONSIDERATIONS**  
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Dispose of in accordance with local state/provincial and federal regulations.

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**SECTION XIV - TRANSPORTATION**  
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**D.O.T. Classification:** Not regulated for ground shipments

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**SECTION XV - REGULATORY INFORMATION**  
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**Occupational Health and Safety Regulations:**

**OSHA:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200)

**Environmental Regulatory Lists**

**SARA - Section 313 (Toxic Chemical Release Reporting) 40 CFR 372** – None listed

**Toxic Substances Control Act (TSCA)** - All the ingredients are listed on the Chemical Substance Inventory.

**Canadian Domestic Substance List (DSL)** - All the ingredients are listed on the DSL.

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**SECTION XVI - OTHER INFORMATION**  
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**Date:** April 20, 2005

**MSDS Prepared by:** Technical Service

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**Disclaimer**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of OSHA/WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form.