

Initial Preparation Date: 8/21/2002
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Effective Date: 10/21/2005

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: FINAL CHARGE CONVERTER

1. CHEMICAL PRODUCT & COMPANY INFORMATION

OLD WORLD INDUSTRIES, INC.
4065 COMMERCIAL AVENUE
NORTHBROOK, ILLINOIS 60062
PHONE: 847-559-2000
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material</u>	<u>CAS#</u>	<u>% by Wt.</u>	<u>PEL/TLV</u>	<u>Hazard</u>
Water	7732-18-5	More than 45%	None	Not noted
Inorganic salts & organic acid salts	Proprietary	Less than 45%	5 mg/m3	Skin, eye & respiratory irritant

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

<i>Skin, eye and respiratory irritant</i>	<i>Do not ingest.</i>	<i>Keep away from open flame.</i>
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HAZARD RATING SYSTEM

HMIS: HEALTH: (1) FLAMMABILITY: (0) REACTIVITY: (0)

0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 - Severe

POTENTIAL HEALTH EFFECTS

Inhalation: Breathing excessive levels of the vapor or mist can irritate the respiratory tract. Excessive vapor concentrations of the major component, as might be generated during heating of this material, have occasionally been reported to cause adverse effects on the blood-forming system and the nervous system.

Ingestion: The toxicology information for one of the components of this mixture is as follows:

Inorganic Acid, Sodium Salt: Moderately toxic by ingestion

The lowest dose of a similar compound reported to produce death in humans was estimated to be 709 mg/kg body weight. This is for a 150 person swallowing about one-tenth (.1) of a pound of the dry material in a short period of time.

Eye Contact: Based on the pH and irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation or inflammation of the eyes.

Skin Contact: Based on the pH and the irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation of the skin.

4. FIRST AID MEASURES

Ensure physician has access to this MSDS.

Routes of Entry: Inhalation, Skin, Ingestion

Signs and Symptoms of Exposure: Mild to moderate irritation or inflammation of the eyes; mild to moderate irritation of the skin

TREATMENT

Eyes: Immediately flush eyes with plenty of cool water for at least 15 minutes. Do NOT permit victim to rub eyes. GET MEDICAL ATTENTION IMMEDIATELY.

Skin: Immediately flush skin with plenty of water while removing contaminated clothing.

Inhalation: Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth to mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do NOT give sodium bicarbonate, fruit juices or vinegar. NEVER give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or Poison Control Center. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Notes to Physician: None

5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION HAZARD DATA

Flammable Properties

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

Flammability Limits - % of vapor concentration at which product can ignite in presence of spark.

LEL: Not applicable

UEL: Not applicable

NFPA: HEALTH: (1) FLAMMABILITY: (0) REACTIVITY: (0)

0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 - Severe

Hazardous Combustion Products: Not known

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

Fire Fighting Instructions: (Note: Individuals should perform only those firefighting procedures for which they have been trained.) Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions.

Protective Equipment For Fire Fighters: Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Protect People: Wear appropriate respiratory equipment and protective equipment as described in Section 8.

Protect the Environment: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented.

Cleanup: Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release, report under the applicable laws and regulations.

7. HANDLING AND STORAGE

- To prevent possible storage container rupture, do not permit to freeze.
- Do not expose children and pets to this material.
- Keep container closed.
- Keep away from open flames.
- After handling product, wash thoroughly with soap and water before drinking, eating or smoking.
- Container hazardous when emptied. Since emptied containers retain product residues, all hazardous precautions described on this MSDS must be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Where exposure is likely to exceed acceptable criteria (see Section 2) and engineering controls are not feasible, use NIOSH/MISHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134).

Skin Protection: Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.

Eye Protection: Wear safety glasses meeting the specifications of ANSI standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

Engineering Controls: Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria (see Section 2), including enclosures and local exhaust ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Approximately 100°C
Freeze Point:	Approximately 0°C
Pounds/Gallon:	8.6
Volatility by Volume:	Not established
Specific Gravity (15/4°C):	1.165
Vapor Pressure (mm of Hg):	Not established
Vapor Density (Air=1):	Not established
Water Solubility:	Infinite miscibility
Appearance:	Clear and red liquid
Melting Point:	Not applicable
Evaporation Rate:	Not established
pH (10 vol. %):	8.7

10. STABILITY & REACTIVITY DATA

Stability: Generally stable

Conditions to Avoid: Do not expose to open flame.

Incompatibility (Materials to Avoid): Avoid concentrated strong acids, oxidizing agents and bases.

Hazardous Decomposition Products: If pyrolyzed, thermal decomposition products of residue may include C, CO, CO₂, H₂O, NH₃, organic vapors and nitrogen-containing.

Hazardous Polymerization: Not likely to occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Skin: No data

Ingestion: Lowest Known LD50 (Oral): Rats – Male 520 mg/kg
Rats – Female 257 mg/kg

Chronic Toxicity:

Carcinogenic effects: None known

National Toxicology Program: Not Listed

International Agency for Research on Cancer: Not Listed

OSHA Regulated: No

Mutagenicity (The Effects On Genetic Material): Not known

Significant Data With Possible Relevance To Humans: Not known

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Movement & Partitioning: No Data

Degradation & Transformation: No Data

Ecotoxicology: No Data

13. DISPOSAL CONSIDERATIONS

All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

RCRA #: No Data

EPA #: No Data

RECYCLABLE: No Data

14. TRANSPORT INFORMATION

U.S. Department of Transportation: No DOT Classification

Proper Shipping Name: Not applicable

IATA: No IATA Classification

IMDG CODE: No IMDG Code

15. REGULATORY INFORMATION

THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS:

United States TSCA (Toxic Substance Control Act)

Inventory: This product is a mixture; therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in the TSCA Inventory of Chemical Substances.

Water Standards: Not listed

Atmospheric Standards: Not listed

CERCLA: Reportable Quantity (RQ): Not listed

SARA Title III:

Section 311/312 - Categories:

Immediate / Acute Health Hazard

Delayed / Chronic Health Hazard

Section 313: This product does not contain substances that are subject to the reporting requirements of Section 313.

California Proposition 65:

This product does not contain any substances currently listed under California Proposition 65.

Canadian Regulations: Not regulated.

WHMIS Information: Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

16. OTHER INFORMATION

Contact: Thomas Cholke

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