

JELMAR
MATERIAL SAFETY DATA SHEET
TARN-X SILVER POLISH

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| | | |
|-------------------------|--|--|
| Manufacturer: | Jelmar, LLC | Emergency Phone Number: 1(800) 323-5497 (USA) |
| Address: | 5550 W. Touhy Ave. Skokie, IL 60077 | Monday – Friday 8:30 A.M. – 4:30 P.M. CST |
| | | Emergency Contact: Chemtrec 1(800) 424-9300 |
| MSDS ID: | 63D0410 | |
| Product Name: | CLR Metal Clear | |
| Chemical Family: | Silver Cleaner | |
| Formula: | Proprietary Mixture | |

SECTION 2 – HAZARDS IDENTIFICATION

PHYSICAL STATE: Slightly viscous liquid
COLOR: Opaque, light blue
ODOR: Light Lavender

WARNING OVERVIEW: May cause eye, skin, and irritation. May be harmful if swallowed. Use with adequate ventilation. Avoid breathing mist or dust. Keep container closed when not in use.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Eyes. Skin. Inhalation. Ingestion.

Target Organs: None known.

Eye Contact: Moderate irritation. May cause tearing, stinging, and redness.

Skin Contact: Short contact is not likely to cause significant skin irritation. Prolonged contact may cause irritation and itching.

Inhalation: In normal use at room temperature, vapors are minimal due to physical properties. Vapors or mists in unusually high concentrations (generated from heating or spraying in poorly ventilated areas or confined spaces) may cause irritation of the throat, headache, nausea and diarrhea.

Ingestion: Moderate Irritation. May cause irritation of the mouth, throat, esophagus, and stomach. May cause nausea, vomiting, and gastrointestinal disturbance.

Medical conditions aggravated by exposure to product: Skin and respiratory disorders.

Cancer Information: This product does not contain >0.10% of the known potential carcinogens listed in NTP, IRAC, or OSHA.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS#</u> | <u>OSHA HAZARD</u> | <u>% by Weight</u> |
|---------------------------------------|-------------|--------------------|--------------------|
| 1. Water | 7732-18-5 | NO | 79-82 |
| 2. Calcined Kaolin Clay | 66402-68-4 | YES | 8-10 |
| 3. Sodium Citrate | 68-04-2 | NO | 2-4 |
| 4. Polyoxyethylene Sorbitan Monoleate | 9005-65-6 | NO | 2-4 |
| 5. Disodium Capryloamphodipropionate | 68815-55-4 | NO | 1-2 |
| 6. Gluconic Acid | 526-95-4 | NO | 1-2 |
| 7. Methanol | 67-56-1 | YES | <0.29 |

SECTION 4 – FIRST AID MEASURES

EYE CONTACT:

In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. Get immediate medical attention.

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SECTION 4 – FIRST AID MEASURES (Continued)

SKIN CONTACT: No adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. Get immediate medical attention if irritation persists.

INHALATION: Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABILITY: Not flammable

FLASH POINT: >100° C / 212° F: Method: TOC

EXPLOSIVE LIMITS IN AIR: N.D.

EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area. Water spray, dry chemical, alcohol foam or carbon dioxide.

FIRE FIGHTING METHODS: Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Oxides. Sodium Oxide. Corrosive Amines.

FIRE AND EXPLOSION HAZARDS: Material will burn in fire, releasing toxic vapors.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

Steps to be taken in Case Material is Released or Spilled: Avoid contact with skin and eyes

Small Spill: No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

Large Spill: Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters; if this should occur, notify authorities.

SECTION 7- HANDLING AND STORAGE

STORAGE: Store in cool, well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original container in a secure area away from children and pets. Do not store in unlabeled or mislabeled containers.

HANDLING: Avoid contact with eyes, skin or clothing. May be harmful or fatal if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hands thoroughly after use. Consumer containers should be rinsed and recycled.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY.

DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENT: General room ventilation is required. Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces. Do not allow product to dry while using.

RESPIRATORY PROTECTION: Not required during normal household usage. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

EYE PROTECTION: Not required during normal household usage. Emergency responders should wear full eye and face protection.

SKIN PROTECTION: Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

OTHER PROTECTION: Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after use or handling.

EXPOSURE GUIDELINES:

| <u>COMPONENT</u> | <u>OSHA</u> | | <u>ACGIH</u> | |
|------------------------------------|----------------------------------|----------------------|----------------------------------|----------------------|
| | <u>PEL</u> | <u>STEL/C</u> | <u>TWA</u> | <u>STEL/C</u> |
| Water | N.E. | N.E. | N.E. | N.E. |
| Calcined Kaolin Clay | 5.0mg/m ³ Respirable | | 5.0mg/m ³ Respirable | |
| | 10.0mg/m ³ Total Dust | | 10.0mg/m ³ Total Dust | |
| Sodium Citrate | N.E. | N.E. | N.E. | N.E. |
| Polyoxyethylene Sorbitan Monoleate | N.E. | N.E. | N.E. | N.E. |
| Capryloamphdiprorpionate | N.E. | N.E. | N.E. | N.E. |
| Gluconic Acid | N.E. | N.E. | N.E. | N.E. |
| Methanol | 200ppm | N.E. | s 200ppm | s 250ppm |
| | s 200ppm + | s 250ppm + | | |

(s) – Skin

N.E. – Not Established

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|----------------|-----------------------------|---------------------|
| Boiling point: | 99° C / 210° F | Specific Gravity: | 1.11-1.13@25°C |
| Vapor Pressure: | N.D. | Percent Volatiles: | ~80.5% (Calculated) |
| Freezing Point: | N.D. | Evaporation Rate: | N.D. (nBuAc=1) |
| Melting Point: | N.D. | VOC (Wt%): | <0.40 (Calculated) |
| Vapor Density (mm Hg): | N.D. | VOC (LBS/GAL): | <0.04 (Calculated) |
| pH: | 5.60-6.00@25°C | Solubility in Water: | ~90% |

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid elevated temperatures.

INCOMPATIBLE MATERIALS: Oxidizing agents and acids. Contact with acids will cause gelling and evolution of heat. In large quantities and on prolonged contact may react with metals like aluminum, tin, lead, and zinc to produce flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Sodium Oxide. Hydrogen gas. Corrosive amines. Thermal decomposition can lead to release of irritating gases and vapors.

POSSIBILITY OF HAZARDOUS REACTIONS: No data.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD₅₀ ORAL: N.E.

LD₅₀ SKIN: N.E.

LC₅₀ INHALATION: N. E.

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SECTION 12- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

CHEMICAL FATE INFORMATION: No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

HAZARDOUS WASTE NUMBER: N.A.

DISPOSAL METHOD: Dispose of in a permitted hazardous waste management facility following all local, state, and federal regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. Follow label warnings, since containers may retain some residue of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT (Department of Transportation Proper Shipping Name): Not regulated by DOT.

Identification Number: N.A.

Packaging Group: N.A.

UN Number: N.A.

TDG Classification: Not Regulated

IMDG Classification: Not Regulated

IATA Classification: Passenger – Not Regulated

WHIMS (Canada): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

SECTION 15 – REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITTLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARD: YES

DELAYED (CHRONIC) HEALTH HAZARD: NO

FIRE HAZARD: NO

SUDDEN RELEASE OF PRESSURE: NO

REACTIVE HAZARD: NO

SARA SECTIONS 302/304/313/HAP:

| COMPENT | RQ (LBS) (1*) | RQ (LBS) (2*) | TPQ (LBS) (3*) | SEC 313 (4*) | HAP (5*) |
|---|------------------|------------------|-------------------|-----------------|-------------|
| Water | N.A. | N.A. | N.A. | NO | NO |
| Calcined Kaolin Clay | N.A. | N.A. | N.A. | NO | NO |
| Sodium Citrate | N.A. | N.A. | N.A. | NO | NO. |
| Polyoxyethylene Sorbitan Monoleate | N.A. | N.A. | N.A. | NO | NO |
| Disodium Capryloamphdipropionate | N.A. | N.A. | N.A. | NO | NO |
| Gluconic Acid | N.A. | N.A. | N.A. | NO | NO |
| Methanol | 5,000 | N.A. | N.A. | YES | YES |

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SECTION 15 – REGULATORY INFORMATION (Continued)

REGULATORY AGENCIES

*1: CERCLA Reportable Quantity

*4: SARA 313 Toxic Chemical / Category

*2: SARA Reportable Quantity

*5: U. S. EPA Hazardous Air Pollutant

*3: SARA EHS Threshold Planning Quantity

INTERNATIONAL CHEMICAL INVENTORY STATUS:

| | |
|-------------------------|-----|
| EUROPEAN UNION (EINECS) | YES |
| JAPAN (METI) | YES |
| AUSTRALIA (ACIS) | YES |
| KOREA (KECL) | YES |
| CANADA (DSL) | YES |
| CANADA (NDSL) | NO |
| PHILIPPINES | YES |

STATES RIGHT TO KNOW: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

NFPA Rating System: Health-1 / Flammability-0 / Reactivity-0 / Special Hazard - None

Precautions to be taken in Handling and Storing: Avoid exposure to excess heat, and prevent from freezing.

Other Precautions: None required.

MSDS ABBREVIATIONS:

- N. A.: Not Applicable
- N. D.: Not Determined
- N.E.: Not Established
- C: Ceiling Limit
- HAP: Hazardous Air Pollutant
- VOC: Volatile Organic Compound

Revision: None

April 2010

R. A. Gaudreault

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