# Safety Data Sheet
# Spartan Chemical Company, Inc.

**Revision Date:** 21-Nov-2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** **M*95**
**Product Number:** 7115 , 7495, 7105
**Recommended Use:** Acid cleaner
**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:**
Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

**24 Hour Emergency Phone Numbers:**
**Medical Emergency/Information:** 888-314-6171
**Transportation/Spill/Leak:** CHEMTREC 800-424-9300

## 2. HAZARDS IDENTIFICATION

**GHS Classification**
Acute Toxicity - Inhalation (Gases): Category 4
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1
Corrosive to Metals: Category 1

**GHS Label Elements**
**Signal Word:** **Danger**
**Symbols:**

**Hazard Statements:**
Harmful if inhaled.
Causes severe skin burns and serious eye damage.
May be corrosive to metals.

**Precautionary Statements:**
**Prevention:**
Use only outdoors or in a well-ventilated area
Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.
Keep in original or other corrosion resistant container.

**Response:** **IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**
**-Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**-Skin** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
**-Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
**-Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
**-Specific Treatment:** See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

**Spill:** Absorb spillage to prevent material damage.
**Storage:** Store locked up. Store in corrosion resistant container.
**Disposal:** Dispose of contents and container in accordance with local, state and federal regulations.

**Hazards Not Otherwise Classified:** Not Applicable

**Other Information:**
• Corrosive.
• Harmful if swallowed
• Do not mix with hypochlorite-type bleach or other household chemicals as hazardous vapors or gases may be produced.
• Keep out of reach of children.
• NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| water | 7732-18-5 | 60-100 |
| hydrochloric acid | 7647-01-0 | 5-10 |

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**-Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
**-Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.
**-Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
**-Ingestion:** Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
**Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic. Contact with metals may evolve flammable hydrogen gas.
**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

## 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.

**Suggested Shelf Life:** Minimum of 2 years from date of manufacture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limits:** .

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| hydrochloric acid<br>7647-01-0 | Ceiling: 2 ppm | (vacated) Ceiling: 5 ppm<br>(vacated) Ceiling: 7 mg/m$^3$<br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m$^3$ | IDLH: 50 ppm<br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m$^3$ |

**Engineering Controls:** Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

**Personal Protective Equipment**

**Eye/Face Protection:** Wear splash goggles.

**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

**Respiratory Protection:** Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance/Physical State:** | Liquid |
| **Color:** | Green |
| **Odor:** | Pine fragrance |
| **pH:** | < 1.0 |
| **Melting Point / Freezing Point:** | No information available. |
| **Boiling Point / Boiling Range:** | 100 °C / 212 °F |
| **Flash Point:** | > 100 °C / > 212 °F ASTM D56 |
| **Evaporation Rate:** | < 1 (Butyl acetate = 1) |
| **Flammability (solid, gas)** | No information available. |
| **Upper Flammability Limit:** | No information available. |
| **Lower Flammability Limit:** | No information available. |
| **Vapor Pressure:** | No information available. |
| **Vapor Density:** | No information available. |
| **Specific Gravity:** | 1.048 |
| **Solubility(ies):** | Soluble in water |
| **Partition Coefficient:** | No information available. |
| **Autoignition Temperature:** | No information available. |
| **Decomposition Temperature:** | No information available. |
| **Viscosity:** | No information available. |

## 10. STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.
**Chemical Stability:** Stable under normal conditions.
**Possibility of Hazardous Reactions:** Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.
**Conditions to Avoid:** Extremes of temperature and direct sunlight.
**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.
**Hazardous Decomposition Products:** May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.
**Symptoms of Exposure:**
**-Eye Contact:** Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
**-Skin Contact:** Pain, redness, blistering and possible chemical burn.
**-Inhalation:** Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.
**-Ingestion:** Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.
**Immediate, Delayed, Chronic Effects**
Product Information: Data not available or insufficient for classification.

Target Organ Effects: -Eyes. Respiratory System. -Skin.
**Numerical Measures of Toxicity**
The following acute toxicity estimates (ATE) are calculated based on the GHS document.
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ATEmix (oral): 7570 mg/kg
ATEmix (dermal): 54181 mg/kg
ATEmix (inhalation-gas): 16892 mg/l
ATEmix (inhalation-dust/mist): 5.4 mg/l

**Component Acute Toxicity Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| water<br>7732-18-5 | > 90 mL/kg ( Rat ) | Not Available | Not Available |
| hydrochloric acid<br>7647-01-0 | 238 - 277 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit ) | = 1.68 mg/L ( Rat ) 1 h |

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Persistence and Degradability:** No information available.
**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.
**US EPA Waste Number:** D002

## 14. TRANSPORT INFORMATION

**DOT:**

| | |
|---|---|
| **UN/ID No:** | UN1760 |
| **Proper Shipping Name:** | Corrosive liquids, n.o.s.,(contains hydrochloric (muriatic) acid) |
| **Hazard Class:** | 8 |
| **Packing Group:** | III |
| **Special Provisions:** | Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation. |

| | |
|---|---|
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| **Packing Group:** | III |

## 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**
This product contains the following listed substances:
**hydrochloric acid**
CAS No 7647-01-0 acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard:** | Yes |
| **Chronic Health Hazard:** | No |
| **Fire Hazard:** | No |
| **Sudden release of pressure hazard:** | No |
| **Reactive Hazard:** | No |

**California Proposition 65**
This product is not subject to warning requirements under California Proposition 65.

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards:** 3 | **Flammability:** 0 | **Instability:** 0 | **Special:** N/A |
| **HMIS** | **Health Hazards:** 3 | **Flammability:** 0 | **Physical Hazards:** 0 | |

| | |
|---|---|
| **Revision Date:** | 21-Nov-2017 |
| **Reasons for Revision:** | Section 7 and 9 |

**Disclaimer:**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**