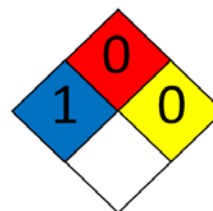




## Scienco/FAST – a division of Bio-Microbics, Inc.

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LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/	1
Flammability		0
Physical Hazard		0
Personal		x

### Section 1 - Identification

**Trade Name:** Mighty Mike®

**Product Description:** Industrial Descaler

Water Scale Solvent

**Manufacturer Item No.:** T-5690, T-5691

U.N. NUMBER: Not Applicable

U.N. DANGEROUS GOODS CLASS: Non-Regulated Material

D.O.T. PROPER SHIPPING NAME: Not Otherwise Indexed (NOI), non-hazardous

### Section 2 – Hazards Identification

**Hazard Statement(s):**

H315: Causes skin irritation      H319: Causes serious eye irritation

**Precautionary Statement(s):**

P264: Wash hands thoroughly      P281: Use protective equipment as required

EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC:

[Xi] Irritant

**Risk Phrases:** R36/38: Irritating to eyes and skin

**Safety Phrases:** S24/25: Avoid contact with skin & eyes

**HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

ACUTE: Prolonged exposure to this product may cause irritation to skin. Contact with eyes may cause irritation. Ingestion may cause gastrointestinal irritation including pain, vomiting or diarrhea.

CHRONIC: None known

TARGET ORGANS: ACUTE: Eyes, Skin      CHRONIC: None Known

### Section 3 - Composition & Ingredients

**Chemical mixture:** Water Scale Solvent

**Formula:** PROPRIETARY

Material or Component	CAS No.	TLV (p.p.m.)	Approximate %
Hydrogen Chloride, Aqueous	7647-01-0	2	Less Than 10

NOTE: Material is aqueous organic salt solution and as such should NOT be considered hazardous under normal use conditions.

NOTE: Laboratory test indicate material to be BIODEGRADABLE. NSF/ANSI Standard 60 certified for use in beverage, pharmaceutical, bottling, poultry and other food processing plants. USFDA has no jurisdiction over this product, since it never comes in direct contact with food.

### Section 4 – First Aid Measures

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

**Inhalation** Material is an aqueous organic salt solution and as such has little vapor pressure and no noxious fumes.

**Eye Contact** Copious water rinse. Consult physician if irritation persists.

**Skin Contact** Copious water rinse. Consult physician if irritation persists.

**Ingestion** Do not induce vomiting – drink milk, egg whites, etc. Consult a physician.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin, or eye problems may be aggravated by prolonged contact.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms, reduce exposure.

### Section 5 – Fire Hazard Data Information

**FLASH POINT:** Not Flammable

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**FLAMMABLE LIMITS (in air by volume, %):** Lower (LEL): NA Upper (UEL): NA

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Non-combustible or explosive. Breathing apparatus recommended.

**FIRE EXTINGUISHING MEDIA**

Does not support combustion.

**SPECIAL FIRE-FIGHTING PROCEDURES**

None-Water will control, as will CO2 and dry chemicals.

**Personal Protective Equipment** As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH Approved or equivalent and full protective gear).

### Section 6 - Spill or Leak Procedures

**Personal Protection**

Eye protective safety glasses with side shields are recommended, however not mandated.

Area isolation is not necessary, as product is of no risk to personnel.

**Procedures**

Rinse area with copious amounts of water to dilute. Sodium bicarbonate may also be used to absorb and/or neutralize liquid. Material is fully biodegradable and may be disposed of down normal sewer system, with water flush in accordance with the local, State, Provincial, and Federal regulations for your location.

## Section 7 – Safe Handling & Storage

**WORK & HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location.

**STORAGE AND HANDLING PRACTICES:** Preserve integrity of container. The recommended storage temperature is between -12C/10F and 81C/180F..

## Section 8 – Exp. Controls/Personal Protection

**EXPOSURE LIMITS/GUIDELINES:**

**Threshold Limit Value** None for total, material is an aqueous organic salt solution and as such has little vapor pressure and no noxious fumes.

**Effects of Overexposure** Should not be considered hazardous when used as directed.

**Respiratory Protection** None required under normal operating conditions, even when materials vapors and/or mists occur.

**Eye Protection** Usage of safety glasses, with side shields are recommended, however not mandated.

**Hand Protection** Recommended however not mandated. Material is non-toxic and can be held in the open hand without risk.

**Engineering Controls (Ventilation)** Use normal exhaust, vent to atmosphere.

**Other Protective Equipment** As recommended by plant safety department. Aprons may be worn to prevent clothing from stains.

## Section 9 – Physical and Chemical Properties

Physical State:	Dark Liquid
Appearance and Odor:	Black
State:	Liquid
Odor Characteristics:	Comparable to Almonds
pH:	Unreadable, generally < 3
Viscosity:	Comparable to Water
Specific Gravity (Water = 1):	1.045
Vapor Density (Air = 1):	>1
Vapor Pressure:	30 Torr.
Boiling Point:	101C/213F
Solubility in Water:	Miscible
Percent Volatility:	99.6
Evaporation Rate (Water = 1):	<1

## Section 10 – Stability and Reactivity

<b>STABILITY:</b>	Product is stable
<b>DECOMPOSITION PRODUCTS:</b>	none
<b>INCOMPATIBLE SUBSTANCES:</b>	Strong acids and strong oxidizing agents.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.
<b>CONDITIONS TO AVOID:</b>	Contact with incompatible materials.

## SECTION 11 - Toxicological Information

**TOXICITY DATA:** not available for mixture: No LD 50 Data Available

**Acute Data**

Some tests indicate that long-term exposure may be corrosive to the eyes of New Zealand albino rabbits. None of the ingredients found in the solution are known carcinogens.

**Mutagenicity Data**

Non-mutagenic.

## SECTION 12 – Ecological Information

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**Environmental Toxicity**

Non-toxic. EPA approved as fully biodegradable and environmentally non-hazardous. Using procedures and protocols specified in the latest edition of Standard Methods for the Examination of Water and Waste Water, APHA, AWWA, WPCF, the BOD was performed on the sample with the following results: BOD: 16mg/l.

## SECTION 13 – Disposal Considerations

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State/Provincial, and local regulations. Material is biodegradable as received.

## SECTION 14 - Transportation Information

**US DOT Hazard Class**

- Class 55 (NMFC 50093 Sub 2): Nonregulated/Nonrestricted. The solution has the properties to be mailed or shipped by any private or commercial carrier without restrictions.

## SECTION 15 – Regulatory Information

**Working Classification**

- This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200-1500), including Subpart Z.
- This product complies with all current Canadian Workplace Hazardous Materials Information System (WHMIS).

**Sara Title 3: Section 311/312/313 Categorization (40CFR 370)**

- Considered non-reportable.

**CERCLA Information (40CFR 302.4)**

- Release of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or to state and local Emergency planning committees under the Superfund Amendments and Reauthorization Act).

**Waste Classification**

- When a decision is made to discard this material as supplied, it does not meet RCRA'S characteristics definition of ignitibility, corrosivity, or reactivity and is not listed in 40CFR 261.33.

**United States**

- All components of this product are in compliance with the inventory listing requirements of U.S. Toxic Substance Control Act (TSCA Chemical Substance Inventory).

## SECTION 16 – Other Information

Please use material only as directed. If procedures are not published for your particular application, please call for assistance. Furthermore, **MIGHTY MIKE MARINE DESCALER** is designed to be used straight (no dilution) or diluted only with water. Do not heat. Use **MIGHTY MIKE INDUSTRIAL DESCALER** at an ambient temperature. Vent circulating solution to atmosphere. Some adverse reactions may occur with some alloys of aluminum, magnesium, and/or zinc. Please consult the manufacturer.

**CAUTION: MIGHTY MIKE INDUSTRIAL DESCALER is non-corrosive, but the application of MIGHTY MIKE INDUSTRIAL DESCALER may expose pre-existing under deposit corrosion (pitting, holes or similar damage) that can result in leaks in pipes, equipment or systems.**

**Disclaimer:** The info provided is provided solely for the User's assistance in complying with the Occupational Safety and Health Act of 1970, and the regulations there under. Given in good faith and based upon research of others, it is believed to be accurate and no known relevant information has been omitted. Any other use is prohibited. Scienco/FAST assumes no responsibility or liability for any loss, injury, or damage, which may occur from the use or misuse of their products. Also, because actual use by others is beyond our control, no guarantee or warranty is either expressed or implied, by Scienco/FAST, as to the product for its use or misuse. Where the Customer has concerns, it is recommended that the Customer perform their own tests. For questions regarding product, please contact us at 314-756-9300 or email at [solutions@sciencofast.com](mailto:solutions@sciencofast.com).

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