

TUNNEL WASH #1

ALUMINUM CLEANER & BRIGHTENER

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tunnel Wash #1 Aluminum Cleaner & Brightener
DATE PREPARED: 10/31/2015 **SUPERCEDED DATE:** 9/1/2023
PRODUCT NUMBER: 508M
PRODUCT FAMILY: Acid Detergent
MANUFACTURER: Industrial Chemical Solutions
4025 Highway 35 North
Columbia, MS 39429
(601) 522-2997
Information: Product Research and Development Department
Emergency Telephone Number: CHEMTREC 1-800-424-9300 Intl. +1 703-527-3887

2. HAZARD IDENTIFICATION

SIGNAL WORD: DANGER
HAZARD CLASSIFICATION: Corrosive Liquid, Toxic
POTENTIAL HEALTH EFFECT: Toxic if ingested. Corrosive to skin, eyes and lungs.
ROUTE OF EXPOSURE: Skin contact, eye contact, ingestion, inhalation
GHS HEALTH CLASSIFICATION: Acute Toxicity, Oral 2; Acute Toxicity, Dermal 2;
Acute Toxicity, Inhalation 3; Skin Corrosion 1 B; Eye Damage/Irritation 1

GHS LABEL ELEMENTS:

- H290** - May be corrosive to metals
- H300** - Fatal if swallowed
- H310** - Fatal in contact with skin
- H330** - Fatal if inhaled
- H314** - Causes severe skin burns and eye damage
- H402** - Harmful to aquatic life
- P260** - Do not breathe dust/fume/gas/mist/vapors/spray.
- P262** - Do not get in eyes, on skin, or on clothing.
- P264** - Wash exposed skin thoroughly after handling.
- P270** - Do not eat, drink or smoke when using this product.
- P271** - Use only outdoors or in a well-ventilated area.
- P273** - Avoid release to the environment.
- P280** - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310+P330+P331** - IF SWALLOWED: Immediately call poison center or physician. Rinse mouth. Do not induce vomiting.
- P303+P361+P353** - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty soap and water.
- P363** - Wash contaminated clothing before reuse.
- P304+P340** - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Pictogram



**INDUSTRIAL
CHEMICAL
SOLUTIONS**

For more information, visit iChemsol.com
4025 Hwy 35 North | Columbia, MS 39429
601-522-2997 | chemicals@ichemsol.com

PRODUCT NAME: TUNNEL WASH #1 ALUMINUM CLEANER & BRIGHTENER

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P390 - Absorb spillage to prevent material damage.

P403 - Store in a well-ventilated place.

P403+P233+P234+P405 - Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Store looked up.

P406 - Store in corrosive resistant HDPE plastic container.

P501 - Dispose of contents & container in accordance with local/regional/national regulations.

3. COMPOSITION IDENTIFICATION

INGREDIENTS:	C.A.S. NUMBER:	PERCENT:
Hydrofluoric Acid	7664-39-3	< 7%
Proprietary	Proprietary	< 1%
Proprietary	Proprietary	< 1%
Proprietary	Proprietary	< 1%
Water	7732-18-5	< 90%

4. FIRST AID MEASURES

SKIN CONTACT: Wash exposed skin thoroughly with soap and water or safety shower. Remove any contaminated clothing. Seek medical attention or advice.

EYE CONTACT: Flush eyes with an eyewash station for several minutes. If irritation occurs seek medical attention.

INGESTION: Flush mouth. Do NOT induce vomiting. Seek immediate medical assistance.

INHALATION: Move person to fresh air. Give oxygen, or artificial respiration as needed. Seek medical assistance.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Non-flammable

FLASH POINT: Does NOT flash

SUITABLE EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide, water spray

UNSUITABLE EXTINGUISHING MEDIA: Not established

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: None known

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Wear approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid contact with eyes and skin. Spill area will be slippery. Wear proper protective equipment when dealing with spills or release.

ENVIRONMENTAL PRECAUTIONS: Contain spill to avoid release to the environment. Keep container closed and located in containment area.

METHODS FOR CONTAINMENT AND CLEAN-UP: Dike and contain spill. Collect liquid with an inert absorbent and transfer to container for reuse or disposal.

7. HANDLING AND STORAGE

HANDLING: Handle with care and avoid contact with skin and eyes. Always wear protective equipment. Wash thoroughly with soap and water after handling.

STORAGE: Store away from oxidizing agents and strong alkalines. Keep container closed when not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

THRESHOLD LIMIT VALUE (TLV): Hydrofluoric Acid, 0.5 mg/m³; Sulfuric Acid, 0.2 mg/m³ Phosphoric Acid, 1 mg/m³

ENGINEERING CONTROLS: Ventilation equipment is required if mist levels are high.

EYE/FACE PROTECTION: Chemical goggles and full face shield

SKIN PROTECTION: Chemical resistant gloves, apron and boots

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

VISCOSITY: Not established

APPEARANCE: Clear

RELATIVE DENSITY: 8.65 lbs/gal

SPECIFIC GRAVITY: 1.04

ODOR: Mild acidic

SOLUBILITY: Soluble

BOILING POINT: Not established

VAPOR PRESSURE: Not established

VAPOR DENSITY: Not established

FREEZING POINT: Not established

DECOMPOSITION TEMPERATURE: Not established

PH: 2.0 - 3.0

PARTIAL COEFFICIENT N-OCTANOL/WATER: Not established

EVAPORATION RATE: < 1

FLASH POINT: Does NOT flash

LOWER FLAMMABILITY/EXPLOSIVE LIMIT: None known

UPPER FLAMMABLE/EXPLOSIVE LIMIT: None known

AUTO-IGNITION TEMPERATURE: None known

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: No unusual conditions

INCOMPATIBLE MATERIALS: Strong Alkalines, soft metals; do NOT mix with other chemicals.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide from thermal decomposition

11. TOXICOLOGY INFORMATION

EYE IRRITATION/CORROSION: Corrosive to eyes and skin.

EFFECTS OF SHORT-TERM EXPOSURE: Irritation or burns to eyes, skin, and mouth.

INGESTION: Could cause systemic effects and in some cases death.

12. ECOLOGICAL IDENTIFICATION

ECOTOXICITY: Not established

PERSISTENCE AND DEGRADABILITY: Biodegradable

BIOACCUMULATION/ACCUMULATION: Not established

13. DISPOSAL CONDITIONS

THIS MATERIAL IS A HAZARDOUS WASTE DEFINED BY 40 CFR 261. MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

14. TRANSPORTATION INFORMATION

GROUND SHIPPING INFORMATION:

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (Hydrofluoric Acid, Sulfuric Acid), 8 (6.1), PG11.

WATER SHIPPING INFORMATION:

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (Hydrofluoric Acid, Sulfuric Acid), 8 (6.1), PG11.

AIR SHIPPING INFORMATION:

UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (Hydrofluoric Acid, Sulfuric Acid), 8 (6.1), PG11.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components listed on TSCA inventory.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

313 REPORTABLE INGREDIENTS:

Hydrofluoric Acid

C.A.S. NUMBER:

7664-39-3

PERCENT:

< 7%

STATE REGULATIONS:

California Proposition 65 – This product does not contain any chemicals currently listed.

INTERNATIONAL REGULATIONS: Class E corrosive under Canadian WHMIS; Class D-2A material

Causes toxic effects under Canadian WHMIS.

SECTION 15 NOTES: None

16. OTHER INFORMATION

PHONE NUMBER: (601) 522-2997

DATE OF PREPARATION: 10/5/2016

This document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification. The information provided in this Safety Data Sheet has been compiled from experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Safety Data Sheets at any time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.