

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EQUIPMENT CLEANER
PRODUCT NO: TM080
RECOMMENDED USE: Low pH Car Wash Equipment Cleaner with Hydrofluoric Acid

COMPANY: TRANS-MATE, INC.
13 Sterling Road
N. Billerica, MA 01862
USA
978-667-0100

EMERGENCY TELEPHONE NUMBER: Trans-Mate – 978-667-0100
CHEMTREC – 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Danger

Causes severe skin burns and eye damage. Toxic if swallowed, if inhaled, if in contact with skin. May cause cancer.

Wear protective gloves/clothing and eye//face protection. Do not breathe mists. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or poison control center.

If on skin: Take off immediately all contaminated clothing and wash before reuse. Flood rinse skin with water/shower for 15 minutes. Apply 2.5% calcium gluconate gel to burn sites. Immediately call a doctor or poison control center.

If swallowed: Rinse mouth. Do NOT induce vomiting. Drink water, milk or a solution of calcium gluconate or calcium lactate. Immediately call a doctor or poison control center.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor or poison control center.

If exposed or concerned: Get medical advice.

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/state/federal regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	WEIGHT %
Hydrofluoric acid	7644-39-3	3-5
Sulfuric acid	7664-93-9	6-8
Surfactant*	111-76-2	1-5**
2-Butoxyethanol	111-76-2	<1**

*Identity of this ingredient is a trade secret

**Exact percentage of this ingredient is a trade secret

SECTION 4: FIRST AID MEASURES

EYES: Flush with plenty of water for 15 minutes while holding eyelids apart. Get medical attention at once. Trained personnel should apply calcium gluconate 1% by continuous drip.

SKIN: Immediately flush with large quantities of water for at least 5 minutes. Remove contaminated clothing while washing. Apply 2.5% calcium gluconate gel to exposed area by rubbing in continuously while wearing impervious gloves. Get medical attention at once; symptoms may not develop for minutes or even hours. Wash contaminated clothing before reuse. Discard leather goods.

INHALATION: Remove to fresh air. Get medical attention immediately. Trained personnel should provide 2.5% calcium gluconate solution by nebulizer with patient in a sitting position. Do not give mouth to mouth resuscitation, instead use an Ambu-bag.

INGESTION: Do not induce vomiting; aspiration hazard. Rinse mouth and drink plenty of water followed by antacid or milk. Get medical attention at once. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, dry chemical, carbon dioxide or "alcohol" foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear as a general precaution.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment; see Section 8.

Keep product from entering storm sewers and ditches that may lead to waterways.

Stop spill at source; dike and contain large spills and transfer to recovery container. Use absorbent for small spills and containerize.

See Section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Avoid contact with eyes, skin and clothing.

Store indoors between 40F/4C and 100F/38C

Use product only for intended use. Follow label directions.

Wash hands after handling

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	CAS #	OSHA PEL (ppm or *mg.M ³) +=skin, c=ceiling	ACGIH TLV (ppm or *mg.M ³) +=skin, c=ceiling
Hydrofluoric acid	7664-39-3	3	3
Sulfuric acid	7664-93-9	1*	1*

EYES: Wear eye protection (i.e. chemical safety glasses with side shields or goggles). Contact lenses should not be worn.

SKIN: Chemical resistant clothing (i.e. gloves) is recommended.

RESPIRATORY PROTECTION: Not expected to be needed. Where over-exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

VENTILATION: Local exhaust or general room ventilation is normally adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash station is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue liquid

ODOR: Acidic odor

ODOR THRESHOLD: NA

pH: 1

MELTING/FREEZING POINT: Approx. 32F/0C

BOILING POINT: APPROX 212F/100C

BOILING RANGE: NA

FLASH POINT (CC): >212F/100C

EVAPORATION RATE: Approx. that of water

FLAMMABILITY: Not flammable nor combustible

UPPER/LOWER FLAMMABILITY LIMITS: NA

UPPER/LOWER EXPLOSIVE LIMITS: NA

VAPOR PRESSURE: NA

VAPOR DENSITY: NA

RELATIVE DENSITY: 9.0 LB/GAL

SOLUBILITY: Soluble in Water

PARTITION COEFFICIENT: N-OCTANOL/WATER: NA

AUTO-IGNITION TEMPERATURE: NA

DECOMPOSITION TEMPERATURE: NA

VISCOSITY: Water thin

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Low.

INCOMPATIBLE MATERIALS: Avoid oxidizers and reducers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and other gases.

SECTION 11: TOXICOLOGICAL INFORMATION

The mist of sulfuric acid is listed as a known human carcinogen by IARC AND NTP. ACGIH classifies 2-butoxyethanol as a confirmed animal carcinogen with unknown relevance to humans; Group A3. This product contains no other ingredients at or above 0.1% that are listed by NTP, IARC, or OSHA as carcinogens.

SECTION 12: ECOLOGICAL INFORMATION

Ecological data for this chemical mixture is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Regulatory information	NA number	Proper shipping name	Class	Packing group	Label	Additional information
DOT	UN2922	Corrosive Liquid, Toxic, N.O.S. (hydrofluoric acid, sulfuric acid)	8 (6)	II	Primary 8 Secondary 6	-

SECTION 15: REGULATORY INFORMATION

RTK Ingredients: Water (7732-18-5), Hydrofluoric acid (7664-39-3), Sulfuric acid (7644-93-9), Surfactant (NA), 2-Butoxyethanol (111-76-2)

SECTION 16: OTHER INFORMATION

NFPA 704

HAZARD RATING

4=Severe H=Health H=4

3=Serious F=Fire F=0

2=Moderate R=Reactivity R=0

1=Slight

0=Minimal

Prepared: January 2, 2105

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