

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STERLING
 PRODUCT NO: TM113
 RECOMMENDED USE: Automotive Wheel Brightener

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 that may not be felt immediately. Toxic if swallowed, if inhaled, if in contact with skin.

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.

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.

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 %
Ammonium bifluoride (ammonium hydrogen difluoride)	1341-49-7	5-10**
Quaternary ammonium compounds*	NA	1-5**
Ethoxylated nonionic surfactant*	NA	1-5**

*Identity of this ingredient is a trade secret

**Exact percentage of this ingredient is a trade secret

SECTION 4: FIRST AID MEASURES

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

If on skin: Immediately remove contaminated clothing and rinse area with water for 15 minutes. Apply 2.5% calcium gluconate gel to burn sites. Wash contaminated clothing before reuse. Discard leather goods. Get medical attention at once.

If swallowed: Do not induce vomiting; aspiration hazard. Contact poison control center immediately. Drink water, milk or a solution of calcium gluconate or calcium lactate. Never give anything by mouth to an unconscious person.

If inhaled: Remove to fresh air. If breathing is difficult, get medical attention immediately. Trained personnel should provide 2.5% calcium gluconate solution by nebulizer with victim sitting upright. If victim is not breathing, use Ambu-Bag, do not give mouth-to-mouth resuscitation.

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
Ammonium bifluoride	1341-49-7	2.5*	2.5*

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: Purple liquid
 ODOR: Cherry fragrance
 ODOR THRESHOLD: NA
 pH: 4-5
 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: 8.6 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

Acute overexposure and prolonged exposure to ammonium bifluoride can cause fluorosis which may result in weight loss, brittle bones, anemia and weakness and stiffness in joints.

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	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT	UN2817	Ammonium hydrogendifluoride, Solution	8	PGII	8, (6.1)	-

SECTION 15: REGULATORY INFORMATION

RTK Ingredients : Water (7732-18-5), Ammonium bifluoride (1341-49-7), Quaternary ammonium compounds (NA), Ethoxylated nonionic surfactant (NA)

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: July 7, 2016

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