



Shanghai Transchem Technology Co., Ltd.

<http://www.transchem-tech.com>

Material Safety Data Sheet

Trifluoromethanesulfonic Anhydride, 99%

Section 1 - Chemical Product and Company Identification

MSDS Name: Trifluoromethanesulfonic anhydride 99%

Manufacturer/Supplier

Shanghai Transchem Technology Co., Ltd.

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Emergency Number: 86-21-60906599

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
358-23-6	Trifluoromethanesulfonic anhydride	99%	

Section 3 - Hazards Identification

Classification of the GHS

PHYSICAL HAZARDS

Corrosive to metals Category 1

HEALTH HAZARDS

Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

ENVIRONMENTAL HAZARDS Not classified

GHS label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statement May be corrosive to metals

Causes severe skin burns and eye damage

Precautionary statements

Prevention:

Keep only in original container.

Do not breathe.



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Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

Absorb spillage to prevent material damage.

Storage: Store locked up.

Disposal: Dispose of contents/container through a waste management company authorized by the local government

Section 4 - First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Dry chemical, foam, water spray, carbon dioxide.

Specific hazards: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Specific methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.



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Methods and materials for containment and cleaning up: Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).

In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Section 7 - Handling and Storage

Handling:

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Use corrosive resistant equipment.

Storage:

Storage conditions: Keep container tightly closed. Store in a refrigerator. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket. Corrosives area.

Packaging material: Law is followed. Keep only in original container.

Section 8 - Exposure Controls, Personal Protection

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment:

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

Section 9 - Physical and Chemical Properties

Physical state (20°C): Liquid

Form: clear

Color: Colorless - Almost colorless

Odor: No data available

pH: No data available

Melting point/freezing point:-80 °C

Boiling Point/Range: 84 °C

Flash Point: No data available

Explosive limits

Lower: No data available

Upper: No data available

Vapor Pressure: 17.3kPa/35°C

Vapor Density: 5.20

Density: 1.72



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Solubility: No data available

Section 10 - Stability and Reactivity

Stability: Stable under proper conditions.

Reactivity: No special reactivity has been reported.

Conditions to avoid: Heat-sensitive, Moisture-sensitive

Incompatible materials: oxidizing agents, acids, bases, alcohols

Hazardous Decomposition Carbon monoxide, Carbon dioxide, Hydrogen fluoride, Sulphur oxides

Products:

Section 11 - Toxicological Information

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC= No data available

NTP= No data available

Reproductive toxicity: No data available

Section 12 - Ecological Information

Ecotoxicity:

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence / degradability: No data available

Bioaccumulative potential(BCF):No data available

Mobility in soil log Pow: No data available

Soil adsorption (Koc): No data available

Henry's Law constant(PaM³/mol): No data available

Section 13 - Disposal Considerations

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

Section 14 - Transport Information

Hazards Class: 8: Corrosive.

UN-No: 3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.

Packing group: II



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Section 15 - Regulatory Information

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

Section 16 - Additional Information

MSDS Creation Date: 3/29/2007

Revision #4 Date: 28/12/2010

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