*This SDS for user in China - Not correspond to the regulation of other regions.



TCI (Shanghai) DEVELOPMENT CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Trifluoromethanesulfonic Anhydride Product code: T1100 TCI (Shanghai) DEVELOPMENT CO., LTD. Company: Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China **Responsible Department:** Sales Department +86-(0)21-67121386 **Telephone:** +86-(0)21-67121385 Fax: Sales-CN@TCIchemicals.com e-mail: **Emergency telephone:** 0532-83889090 **Revision number:** 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture PHYSICAL HAZARDS Corrosive to metals HEALTH HAZARDS Skin corrosion/irritation Serious eye damage/eye irritation ENVIRONMENTAL HAZARDS Label elements Pictograms or hazard symbols

Category 1

Category 1B Category 1 Not classified



Signal word Hazard statements

Danger May be corrosive to metals Causes severe skin burns and eye damage

Precautionary statements	
[Prevention]	Keep only in original container.
	Do not breathe dusts or mists.
	Wash hands and face thoroughly after handling.
	Wear protective gloves, protective clothing, face protection.
[Response]	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
	IF IN EYES: 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.
	Absorb spillage to prevent material damage.
[Storage]	Store in corrosive resistant bottle or metal container with a resistant inner liner. Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Trifluoromethanesulfonic Anhydride
Percent:	>98.0%(T)
CAS RN:	358-23-6
Chemical Formula:	$C_2F_6O_5S_2$

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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing	Dry chemical, foam, water spray, carbon dioxide.
media:	
Specific hazards arising fron	Take care as it may decompose upon combustion or in high temperatures to
the chemical:	generate poisonous fume.
Precautions for firefighters:	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 equipmen	t When extinguishing fire, be sure to wear personal protective equipment

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	Use personal protective equipment. Keep people away from and upwind of
protective equipment and	spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be
emergency procedures:	controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth,
containment and cleaning	saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered
up:	or collected material should be promptly disposed of, in accordance with
	appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling	_
Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
Advice on safe handling:	Avoid contact with skin, eyes and clothing.
-	Use corrosive resistant equipment.
Conditions for safe storage, inc	luding any
incompatibilities	
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. Heat-sensitive, Moisture-sensitive
Packaging material:	Comply with laws. Keep only in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

 Personal protective equipment
 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.
Impervious gloves.
Safety goggles. A face-shield, if the situation requires.
Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Almost colorless
Odour:	No data available
pH:	No data available
Melting point/freezing point:	-80°C
Boiling point/range:	84°C
Flash point:	No data available
Flammability or explosive	
limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	17.3kPa/35°C
Vapour density:	5.20
Relative density:	1.72
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Incompatible materials:	Oxidizing agents, Acids, Bases, Alcohols
Hazardous decomposition	Carbon dioxide, Carbon monoxide, Hydrogen fluoride, Sulfur oxides
products:	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative	No data available
potential(BCF):	
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available

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.

14. TRANSPORT INFORMATION

Hazards Class:	8: Corrosive.
UN-No:	3265
Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Packing group:	II

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

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Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	Technical Information Department
Emergency telephone:	0532-83889090
Fax:	+86-(0)21-67121385

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.