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



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 2

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# SAFETY DATA SHEET

## **1. IDENTIFICATION**

Product name:	Ethyl Bromodifluoroacetate
Product code:	B1463
Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Responsible Department:	Sales Department
Telephone:	+86-(0)21-67121386
Fax:	+86-(0)21-67121385
e-mail:	Sales-CN@TCIchemicals.com
Emergency telephone:	0532-83889090
Revision number:	2

### 2. HAZARDS IDENTIFICATION

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

Signal word Hazard statements Category 2

Category 1B Category 1 Not classified

Danger Highly flammable liquid and vapour Causes severe skin burns and eye damage

Precautionary statements	e anno e contra companya e contrago
[Prevention]	Keep away from heat, sparks, open flames and hot surfacesNo smoking. Keep container tightly closed.
	Ground and bond container and receiving equipment.
	Use explosion-proof electrical, ventilating and lighting equipment. Use only
	non-sparking tools. Take precautionary measures against static discharge.
	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.
[Storage]	Store in a well-ventilated place. Keep cool.
	Store locked up.

TCI (Shanghai) DEVELOPMENT CO., LTD. Revision number: 2Revision date: 10/24/2019Page 2 of 4[Disposal]Dispose of contents and container in accordance with local, regional, national<br/>regulations.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMAT	TON ON INGREDIENTS
Substance/mixture:	Substance
Components:	Ethyl Bromodifluoroacetate
Percent:	>98.0%(GC)
CAS RN:	667-27-6
Synonyms:	Bromodifluoroacetic Acid Ethyl Ester
Chemical Formula:	C <sub>4</sub> H <sub>5</sub> BrF <sub>2</sub> O <sub>2</sub>
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**

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Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
meula.	
Unsuitable extinguishing media:	Solid streams of water
	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: Keep containers cool by spraying with water. Eliminate all ignition
	sources if safe to do so.
Spacial protective equipment	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, 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: Methods and materials for containment and cleaning up:	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. 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.
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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.
Conditions for safe storage, inc	luding any
incompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.
Deckering motorial	Store away from incompatible materials such as oxidizing agents. Comply with laws.
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / I	PERSONAL PROTECTION
Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipme	ent
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.
9. PHYSICAL AND CHEMICA	
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	

# 10. STABILITY AND REACTIVITY

Boiling point/range:

Flammability or explosive

Flash point:

Upper: Relative density:

[Water]

Solubility(ies):

[Other solvents]

limits: Lower:

Chemical stability:	Stable under proper conditions.
Possibility of hazardous	No special reactivity has been reported.
reactions:	
Conditions to avoid:	Spark, Open flame, Static discharge
Incompatible materials:	Oxidizing agents, Bases
Hazardous decomposition	Carbon dioxide, Carbon monoxide, Hydrogen fluoride, Hydrogen bromide
products:	

No data available

No data available No data available

No data available

No data available

21°C

1.57

#### **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**

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#### **13. DISPOSAL CONSIDERATIONS**

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

#### **14. TRANSPORT INFORMATION**

Hazards Class:	3: Flammable liquid.
Subsidiary risk:	8: Corrosive.
UN-No:	2924
Proper shipping name:	Flammable liquid, corrosive, 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

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 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.