\*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: 4-Chlorobutyraldehyde Diethyl Acetal Product code: C2717 TCI (Shanghai) DEVELOPMENT CO., LTD. Company: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Address: **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:** 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

Category 3

Category 2 Category 2A Not classified

Warning

Flammable liquid and vapour

Causes skin irritation



Signal word Hazard statements

Causes serious eye irritation **Precautionary statements** [Prevention] Keep away from heat, sparks, open flames and hot surfaces. -No 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. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice [Response] or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. In case of fire: Use dry chemical, dry sand or foam to extinguish. Store in a well-ventilated place. Keep cool. [Storage] [Disposal] Dispose of contents and container in accordance with local, regional, national regulations.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	4-Chlorobutyraldehyde Diethyl Acetal
Percent:	>97.0%(GC)
CAS RN:	6139-83-9
Synonyms:	4-Chloro-1,1-diethoxybutane
Chemical Formula:	C8H17CIO2

## 4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
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, carbon dioxide.
media:	
Unsuitable extinguishing	Water (It may scatter and spread fire.)
media:	
Specific hazards arising from	n 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
0	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.
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, 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:	Prevent product from entering drains. 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, incl incompatibilities	luding any
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive Comply with laws.
Packaging material:	Compry with laws.
8. EXPOSURE CONTROLS / F Engineering controls: Personal protective equipme Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Install a closed system or local exhaust. Also install safety shower and eye bath.
9. PHYSICAL AND CHEMICAI	PROPERTIES
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Very pale yellow - Pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	
Boiling point/range:	92°C /2.7kPa
Flash point: Flammability or explosive limits:	No data available
Lower:	No data available
Upper:	No data available
Relative density: Solubility(ies):	0.99
[Water] [Other solvents]	No data available No data available
10. STABILITY AND REACTIV	ΊΤΥ
Chemical stability: Possibility of hazardous	Stable under proper conditions. No special reactivity has been reported.
reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:	Spark, Open flame, Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide, Hydrogen chloride

#### **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. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

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

Hazards Class:	3: Flammable liquid.
UN-No:	1993
Proper shipping name:	Flammable liquid, n.o.s.
Packing group:	111

## **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
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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.