2,2,4,4-Tetrafluoro-1,3-dithietane Revision number: 1 Revision date: 12/01/2010 Page 1 of 4

**Revision date: 12/01/2010** 

# **SAFETY DATA SHEET**

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product name:** 2,2,4,4-Tetrafluoro-1,3-dithietane

Product code: T1776

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

Responsible Department: Sales Department +86-(0)21-67121386 +86-(0)21-67121385 e-mail: sales@tcishanghai.com.cn

Revision number: 1

### 2. HAZARDS IDENTIFICATION

Classification of the GHS PHYSICAL HAZARDS Flammable liquids

Flammable liquids Category 3
HEALTH HAZARDS Not classified
ENVIRONMENTAL HAZARDS Not classified

**GHS** label elements

Pictograms or hazard symbols



Signal word Warning

Hazard statement Flammable liquid and vapour

**Precautionary statements** 

[Prevention] Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary

measures against ignition by the static discharge and the spark.

Wear protective gloves/eye protection/face protection.

[Response] IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

[Storage] Store in a well-ventilated place. Keep cool.

[Disposal] Dispose of contents/container through a waste management company authorized by

the local government

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

**Component(s):** 2,2,4,4-Tetrafluoro-1,3-dithietane

Percent: >98.0%(GC) CAS Number: 1717-50-6Chemical Formula:  $C_2F_4S_2$ 

# 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. Rinse skin with

water/shower. If skin irritation or rash occurs: Get medical advice/attention.

## 4. FIRST AID MEASURES

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

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

media:

Extinguishing media not to Solid streams of water

be used:

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

Dry chemical, foam, water spray, carbon dioxide.

generate poisonous fume.

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing Specific methods:

> 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

> Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Entry to non-involved personnel should be controlled

spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

Special protective

equipment for firefighters:

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures:

around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains. 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

Handling

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapor or mist. Keep away from heat/sparks/open flame/hot surfaces. -No 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 vapor or aerosol

will be generated.

Avoid contact with skin, eyes and clothing. Advice on safe handling:

Storage

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Storage conditions:

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Personal protective equipment

Respiratory protection: Vapor respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires. **Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid clear

Color: Pale yellow - Reddish yellow

Odor: No data available
PH: No data available
Melting point/freezing point: No data available

**Boiling Point/Range:** 48 °C **Flash Point:** 36°C

**Explosive limits** 

Lower: No data available Upper: No data available

Density: 1.61

Solubility: No data available

# 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** No special reactivity has been reported.

Conditions to avoid: Heat-sensitive Incompartible materials: oxidizing agents

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

**Products:** 

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Skin corrosion/irritation:

Serious eye

No data available
No data available
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:
Crustacea:
Algae:
No data available

potential(BCF): Mobillity in soil

log Pow:No data availableSoil adsorption (Koc):No data availableHenry's LawNo data available

constant(PaM³/mol):

#### 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.

### 14. TRANSPORT INFORMATION

Packing group:

#### 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.

#### 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

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