

TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1 Revision date: 09/06/2019 Page 1 of 4

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 3,4-Diethoxy-3-cyclobutene-1,2-dione

Product code: D3253

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

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

Not classified

 Responsible Department:
 Sales Department

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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

HEALTH HAZARDS
Skin corrosion/irritation

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ARespiratory sensitizationCategory 1Skin sensitizationCategory 1ENVIRONMENTAL HAZARDSNot classified

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing

difficulties if inhaled

May cause an allergic skin reaction

Precautionary statements

[Prevention] Avoid breathing mist, vapors or spray.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands and face thoroughly after handling.

Wear respiratory protection.

Wear protective gloves, eye protection.

[Response] IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Take off contaminated clothing. And wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If

experiencing respiratory symptoms: 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. If eye irritation persists: Get

medical advice or attention.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

TCI (Shanghai) DEVELOPMENT CO., LTD. Revision number: 1 Revision date: 09/06/2019 Page 2 of 4

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

3,4-Diethoxy-3-cyclobutene-1,2-dione Components:

Percent: >98.0%(GC) CAS RN: 5231-87-8

Diethyl Squarate, Squaric Acid Diethyl Ester Synonyms:

Chemical Formula: C8H10O4

4. FIRST AID MEASURES

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

Call a POISON CENTER or doctor/physician 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.

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

Dry chemical, foam, water spray, carbon dioxide.

media:

Unsuitable extinguishing

Solid streams of water

media:

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

for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and Use personal protective equipment. Keep people away from and upwind of 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 containment and cleaning

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.

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 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, including any

incompatibilities

up:

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

Comply with laws. Packaging material:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

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

Colour: Very pale yellow - Pale yellow

Odour:

pH:

No data available

Poiling point/range:

Plash point:

No data available

No data available

Flammability or explosive

limits:

Lower: No data available Upper: No data available

Relative density: 1.16

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, Strong bases
Hazardous decomposition Carbon dioxide, Carbon monoxide

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: skn-gpg TDLo:2.5 mg/kg

Skin corrosion/irritation:
Serious eye
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
RTECS Number: GU1772466

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

Bioaccumulative

No data available
No data available
No data available
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

Revision date: 09/06/2019 Page 4 of 4

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: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

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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