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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Tween 80 (=Polyoxyethylene Sorbitan Monooleate)

Product code: T0546

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

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

 Responsible Department:
 Sales Department

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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS

Serious eye damage/eye irritation Category 2B ENVIRONMENTAL HAZARDS Not classified

Label elements

Pictograms or hazard symbols
Signal word
None
Warning

Hazard statements Causes eye irritation

Precautionary statements

[Prevention] Wash hands and face thoroughly after handling.

[Response] 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Tween 80 (=Polyoxyethylene Sorbitan Monooleate)

Percent:

CAS RN: 9005-65-6

Synonyms: Polyoxyethylene Sorbitan Monooleate

Chemical Formula: ----

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.

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, water spray, carbon dioxide.

media:

Fire-extinguishing work is done from the windward and the suitable Precautions for firefighters:

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. 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 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.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

exposed directly. Also install safety shower and eye bath.

Personal protective equipment

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

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear

Colour: Slightly pale yellow - Yellow

Odour: Characteristic pH: 5 - 7 (5% H₂O soln.)

Melting point/freezing point: -25°C

Boiling point/range: No data available

Flash point: 295°C

Flammability or explosive

limits:

Lower:No data availableUpper:No data availableVapour pressure:<0.1kPa/20°C</th>

Relative density: 1.08

Solubility(ies):

[Water] Miscible

[Other solvents]

Soluble: Alcohols, Toluene, Ethyl acetate

Very slightly soluble: Xylene

Insoluble: Hexane, Mineral oil

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents, Bases, Heavy metal salts Hazardous decomposition Carbon monoxide, carbon dioxide etc

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ipr-rat LD50:6804 mg/kg

ivn-rat LD50:1790 mg/kg orl-mus LD50:25 g/kg orl-rat LD50:34500 uL/kg

Skin corrosion/irritation: No data available
Serious eye eye-rbt 150 mg MLD

damage/irritation:

Germ cell mutagenicity: dni-hmn-lym 20 ppm

dni-mus-oth 20 ppm

Carcinogenicity: orl-rat TDLo:2163 g/kg/2Y-C

scu-rat TDLo:10 g/kg/27W-I

No data available

NTP = No data available

Reproductive toxicity: ipr-rat TDLo:80 uL/kg (4D post)

orl-rat TDLo:1270 g/kg (84D pre-21D post) orl-rat TDLo:635 g/kg (multigenerations)

RTECS Number: WG2932500

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:
Soil adsorption (Koc):
Henry's Law (PaM ³/mol):
No data available
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: 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

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.