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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Deuterium Oxide 99.8atom%D

Product code: W0002

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

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Emergency telephone: 0532-83889090

Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

HEALTH HAZARDS

Not classified

Not classified

Not classified

Not classified

Label elements

Pictograms or hazard symbols None

Signal word No signal word

Hazard statements None Precautionary statements None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Deuterium Oxide 99.8atom%D

Percent: ...

CAS RN: 7789-20-0

Synonyms: Water-d₂ 99.8atom%D

Chemical Formula: D₂O

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:

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,

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

protective equipment and 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 under inert gas. Protect from moisture.

Store away from incompatible materials such as oxidizing agents.

Hygroscopic

Packaging material: Comply with laws.

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

Colorless - Almost colorless

Odorless

pH: No data available

Melting point/freezing point: 4°C Boiling point/range: 101°C

Flash point: No data available

Flammability or explosive

limits:

Lower: No data available Upper: No data available

Relative density: 1.11

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

Hazardous decomposition Carbon monoxide, carbon dioxide etc

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:No data availableSkin corrosion/irritation:No data availableSerious eyeNo 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: ZC0230000

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

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

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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.