N-tert-Butyl-N-ethylnitrosamine Revision number: 1 Revision date: 11/29/2010 Page 1 of 4

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# **SAFETY DATA SHEET**

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

**Product name:** N-tert-Butyl-N-ethylnitrosamine

Product code: B0889

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
Not classified

Acute toxicity (Oral) Category 4
ENVIRONMENTAL HAZARDS Not classified

**GHS** label elements

**HEALTH HAZARDS** 

Pictograms or hazard symbols



Signal word Warning

Hazard statement Harmful if swallowed

**Precautionary statements** 

[Prevention] Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

[Response] IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

[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): N-tert-Butyl-N-ethylnitrosamine

**Percent:** >98.0%(GC) **CAS Number:** 3398-69-4

**Synonyms:** N-Nitroso-tert-butylethylamine

Chemical Formula:  $C_6H_{14}N_2O$ 

### 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.

# 4. FIRST AID MEASURES

**Ingestion:** Call a POISON CENTER or doctor/physician 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

Specific hazards:

Suitable extinguishing

media:

Dry chemical, foam, water spray, carbon dioxide.

Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to

generate poisonous fume.

**Specific methods:** 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: Keep containers cool by

spraying with water. Eliminate all ignition sources if safe to do so.

Special protective

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

equipment for firefighters:

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by

Sweep dust to collect it into an airtight container, taking care not to disperse it.

roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

Methods and materials for

containment and cleaning

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

up:

# 7. HANDLING AND STORAGE

Handling

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

Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. 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. Avoid shock and friction. Wash hands and face before

breaks and immediately after handling the product.
Use a local exhaust if dust or aerosol will be generated.

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

**Storage** 

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

Be sure not to give the container unexpected impacts, such as falling down or falling

off.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

# 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:** Dust 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): Solid crystal

**Color:** Very pale yellow - Pale yellow

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: No data available PH: No data available Melting point/freezing point: 21°C (Freezing point)

**Boiling Point/Range:** 84 °C/2.3kPa **Flash Point:** No data available

**Explosive limits** 

Lower:No data availableUpper:No data availableDensity:No data availableSolubility:No data available

# 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** May explosively decompose on heating, shock, friction, etc.

**Incompartible materials:** oxidizing agents

Hazardous Decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)

**Products:** 

#### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:1600 mg/kg

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
RTECS Number: EO5100000

### 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 and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. 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

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

**Department:** R&D (Information Management) Department

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