Plumbagin Revision number: 1 **Revision date: 12/01/2010** Page 1 of 4

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# SAFETY DATA SHEET

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

Product name: Plumbagin Product code: P1139

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

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

Not classified

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

Revision number:

## 2. HAZARDS IDENTIFICATION

Classification of the GHS **PHYSICAL HAZARDS** 

**HEALTH HAZARDS** Acute toxicity (Oral) Category 3 Skin corrosion/irritation Category 1C Serious eye damage/eye irritation Category 1 Not classified

**ENVIRONMENTAL HAZARDS** 

**GHS** label elements

Pictograms or hazard symbols



Signal word Danger

**Hazard statement** Toxic if swallowed

Causes severe skin burns and eye damage

**Precautionary statements** 

[Prevention] Do not breathe.

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

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

[Response] IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse

mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

[Storage] Store locked up.

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

the local government

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

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Component(s):PlumbaginPercent:>97.0%(T)CAS Number:481-42-5

**Synonyms:** 5-Hydroxy-2-methyl-1,4-naphthoguinone

Chemical Formula: C<sub>11</sub>H<sub>8</sub>O<sub>3</sub>

4. FIRST AID MEASURES

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

Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. Immediately call a POISON CENTER or doctor/physician.

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

and easy to do. Continue rinsing.Immediately call a POISON CENTER or

doctor/physician.

Immediately call a POISON CENTER or doctor/physician. 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:

Dry chemical, foam, water spray, carbon dioxide.

**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: Remove movable

containers if safe to do so.

Special protective

equipment for firefighters:

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

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should

be controlled around the leakage area by roping off, etc.

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

Methods and materials for containment and cleaning

containment and cleaning up:

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling

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

Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. 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.

Store locked up.

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. Also install safety shower and eye bath.

Personal protective equipment

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory protection:** Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations.

**Hand protection:** Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: crystal - powder

Color: Reddish yellow - Deep yellow red

Odor: No data available PH: No data available

Melting point/freezing point:77 °C

**Boiling Point/Range:**No data available
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:** No special reactivity has been reported.

Incompartible materials: oxidizing agents

Hazardous Decomposition Carbon monoxide, Carbon dioxide

**Products:** 

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** orl-mus LD50:16 mg/kg

orl-rat LD50:65 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: QL8500000

# 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 dissolve or mix material with a combustible solvent and 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:** 8: Corrosive.

**Subsidiary risk:** 6.1: Toxic substance.

**UN-No**: 2923

**Proper shipping name:** Corrosive solid, toxic, n.o.s.

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

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

**Telephone:** +86-(0)21-67121388\*461 **Fax:** +86-(0)21-67121385

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