*This SDS for user in China - Not correspond to the regulation of other regions.



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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Chlorambucil Product code: C2939

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

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

Not classified

Not classified

 Responsible Department:
 Sales Department

 Telephone:
 +86-(0)21-67121386

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Emergency telephone: 0532-83889090

Revision number: 2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS HEALTH HAZARDS

Acute toxicity (Oral)Category 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2AGerm cell mutagenicityCategory 2CarcinogenicityCategory 1AReproductive toxicityCategory 1ASpecific target organ toxicityNervous system

- Single exposure [Category 1]

Specific target organ toxicity

Bone marrow Nervous system Immune system

- Repeated exposure [Category 1]

ENVIRONMENTAL HAZARDS

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements

Toxic if swallowed
Causes skin irritation

Causes serious eye irritation

Suspected of causing genetic defects

May cause cancer

May damage fertility or the unborn child Causes damage to organs : Nervous system

Causes damage to organs through prolonged or repeated exposure: Bone marrow Nervous system Immune system

Precautionary statements

[Prevention] Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

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[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice

or attention. Take off contaminated clothing and wash it before reuse.

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.

If exposed or concerned: Call a POISON CENTER or doctor.

Store locked up. [Storage]

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

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Substance/mixture: Components: Chlorambucil >98.0%(GC)(T) Percent: CAS RN: 305-03-3

Synonyms: 4-[4-[Bis(2-chloroethyl)amino]phenyl]butyric Acid

Chemical Formula: C14H19Cl2NO2

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.

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

of soap and water. Call a POISON CENTER or doctor/physician.

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

and easy to do. Call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Ingestion:

A rescuer should wear personal protective equipment, such as rubber gloves and Protection of first-aiders:

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media:

Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to the chemical: generate poisonous fume.

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

protective equipment and emergency procedures:

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

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. up:

7. HANDLING AND STORAGE

Precautions for safe 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 all contact!

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a refrigerator.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Heat-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

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

Colour: White - Slightly pale yellow

Odour: No data available No data available

Melting point/freezing point: 67°C

Boiling point/range: No data available Flash point: No data available

Flammability or explosive

limits:

Lower: No data available
Upper: No data available
Vapour pressure: 1.2 x 10-7kPa/25°C
Relative density: No data available

Solubility(ies):

[Water] Very slightly soluble (7.5g/L, 25°C)

[Other solvents]

Soluble: Ether, Benzene

Slightly soluble: Acetone, Chloroform, Ethanol

Log Pow: 1.70

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 dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:76 mg/kg

ipr-rat LD50:14 mg/kg scu-mus LD50:26 mg/kg

Skin corrosion/irritation: No data available
Serious eye No data available

damage/irritation:

Germ cell mutagenicity: dlt-mus-ipr 5 mg/kg

cyt-hmn-lym 250 ug/L trn-mus-ipr 6 mg/kg mnt-rat-ipr 30 mg/kg

Carcinogenicity: orl-man TDLo:84 mg/kg/2.5Y-C

ipr-rat TDLo:120 mg/kg/26W-I skn-mus TDLo:108 mg/kg/9W-I Group 1 (Carcinogenic to humans)

IARC = Group 1 (Carcinogenic to humans)

NTP = a (Known to be carcinogens)

Reproductive toxicity: orl-wmn TDLo:5160 ug/kg (33-75D preg)

unr-man TDLo:5857 ug/kg (30W male) orl-rat TDLo:8 mg/kg (15D preg)

ipr-rat TDLo:4 mg/kg (13D preg)

RTECS Number: ES7525000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

No data available
No data available
No data available
No data available

Bioaccumulative 3

potential(BCF): Mobility in soil

> Log Pow: 1.70 Soil adsorption (Koc): 11

Henry's Law (PaM 3/mol): 1.73 x 10⁻⁵

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: 6.1: Toxic substance.

UN-No: 2811

Proper shipping name: Toxic solid, organic, n.o.s.

Packing group:

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.

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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.