

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and the company

Commercial product name	Tributyl Citrate (TBC)
Use of the substance/preparation	Laboratory chemical, manufacturing of substances, flavor agent, industrial raw material
Synonyms	Tri-n-butyl citrate, 1,2,3-Propanetricarboxylicacid, 2-hydroxy-, 1,2,3-tributyl ester
CAS-nr	77-94-1
EC-nr	201-071-24
Company	Chanjao Longevity Co., Ltd.
Adress	50 Ramindra 14 Bangkok 10230 THAILAND
Telephone number	+66 02 002 7 002
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2. Hazards Identification

Classification acc. to CLP (Regulation (EC) No 1272/2008 [CLP/GHS]: Not classified
Classification acc. to (67/548/EEC or 1999/45/EC): Not classified

Hazards of Product:

None known

Potential Health Effects:

May cause slight irritation to the eyes and skin. May be harmful if ingested in sufficient quantities. High gas, vapor or mist concentrations may be harmful if inhaled.

3. Composition/Information on ingredients

EG-nr	CAS-nr	Substance name	Content	Classification
201-071-24	77-94-1	Tributyl Citrate	100%	Not classified

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4. First aid measures

Inhalation	Move person to fresh air; if effects occur, consult a physician.
Skin contact	Take off contaminated clothing. Wash skin with plenty of water.
Eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Protection of first-aiders	No special precautions required.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol resistant foam.
Extinguishing media which must not be used for safety reason	None
Specific hazards	The product is not flammable nor combustible. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Burning produces obnoxious and toxic fumes. CO, CO ₂ , Nox. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers / tanks with spray water.
Special protective equipment for firefighters	Wear personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions	Sweep-up to prevent slipping hazard. Evacuate personnel to safe areas. Avoid contact with skin and eyes. Wear personal protective equipment.
Environmental precautions	Prevent product from entering drains.
Methods for cleaning up	Adsorb with inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

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7. Handling and storage

Storage	Handle in accordance with good industrial hygiene and safety practice for diagnostics. Keep in properly labelled containers. Keep tightly closed in a dry, cool (<30 °C) and well-ventilated place.
Handling	Impervious gloves. Wear personal protective equipment. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls/personal protection

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur
Skin and body protection	When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material.
Eye protection	Face-shield Safety glasses
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical state	Liquid
Colour	Clear, colorless
Odour	Odourless
Vapour Pressure	-
Viscosity	31.9 mPa.s@25 deg C
Boiling Point	234 deg C @ 17 mmHg
Freezing/Melting Point	-20 deg C
Flash point	157 deg C (314.60 deg F)
Solubility in water	Insoluble
Specific Gravity	1.041
Molecular Weight	360.45

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10. Stability and reactivity

Stability	Stable at normal use conditions/temperatures.
Materials to avoid	Oxidizing agents/materials, bases
Conditions to avoid	Oxidizing conditions

11. Toxicological information

Acute toxicity

LD50 Intraperitoneal - mouse - 2900 mg/kg

Potential Health Effects:

May cause slight irritation to the eyes and skin. May be harmful if ingested in sufficient quantities. High gas, vapor or mist concentrations may be harmful if inhaled.

12. Ecotoxicological information

Toxicity

No ecological information available

Persistence and degradability

Non-persistent, easily degradable

Bioaccumulative potential

Do not accumulate

Mobility in soil

No data available

13. Disposal considerations

Not classified as environmentally hazardous material.

Contaminated packaging	Empty containers should be transported/delivered to local recyclers for disposal.
Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.	

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14. Transport information

ADR/RID/IMDG	Not classified as dangerous in the meaning of transport regulations.
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15. Regulatory information

This product need no labelling according to CLP (Regulation (EC) No 1272/2008 (CLP/GHS) or (67/548/EEC or 1999/45/EC)

16. Remaining information

The information in this data sheet is considered to be correct according to present knowledge and experience, but there is no guarantee that it is complete. It is therefore in the user's interest to ensure that the information is sufficient for the area it is intended for.