

# MATERIAL SAFETY DATA SHEET

according to Regulation (EU) 2020/878

## Tributylin Powder

Feed Grade Glycerol Tributyrate Powder

Document Item	Information
Trade Name	Tributylin Powder
Printing Date	01.01.2026
Revision Date	01.01.2026
Supplier	Tianjin Huge Roc Enterprises Co., Ltd
Address	1806, HUIJIN CENTRE, 65 DAGU BEILU, TIANJIN CHINA, 300041

### SECTION 1: Identification of the substance/mixture and of the company

#### 1.1 Product identifier

Item	Information
Trade Name	Tributylin Powder
Chemical Name	Glycerol tributyrate / Tributyrin
CAS No.	60-01-5
Molecular Formula	C15H26O6
Molecular Weight	302.36 g/mol
Product Form	Powder mixture; tributyrin absorbed or carried on feed-grade carrier

#### 1.2 Relevant identified uses and uses advised against

Identified use: raw material for animal nutrition and feed formulation. Product may be used as a source of butyric acid activity in feed applications, subject to local feed regulations and customer formulation requirements.

Uses advised against: uses not consistent with the above identified use or applicable regulations.

#### 1.3 Details of the supplier of the safety data sheet

Company Name	Tianjin Huge Roc Enterprises Co., Ltd
Company Address	1806, HUIJIN CENTRE, 65 DAGU BEILU, TIANJIN CHINA, 300041
Post Code	300041

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP): the mixture is not classified as hazardous to health or the environment based on available information and intended feed use.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: not applicable.

Information concerning particular hazards for human and environment: dust may cause mechanical irritation to eyes, skin, or respiratory tract. Avoid dust generation during handling.

#### 2.2 Label elements

Label Element	Result
Hazard pictograms	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary advice	Avoid breathing dust. Use appropriate ventilation and normal industrial hygiene practices.

#### 2.3 Other hazards

PBT/vPvB: not applicable based on available information. Other hazards that do not result in classification: no information known.

### SECTION 3: Composition/information on ingredients

#### 3.1 Mixture

Component	CAS No.	Content / Description
-----------	---------	-----------------------

<b>Tributyryn</b>	60-01-5	Active ingredient
<b>Feed-grade carrier</b>	Not applicable	Inert carrier used for powder form; composition depends on product specification

The exact concentration may vary according to commercial grade. The product is supplied as a powder preparation of tributyrin for feed use. No component is present at a level requiring hazardous classification under normal conditions of intended use.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Exposure Route	First Aid Measure
<b>After inhalation</b>	Supply fresh air. If respiratory discomfort persists, consult a physician.
<b>After skin contact</b>	Wash with water and soap and rinse thoroughly. Remove contaminated clothing if necessary.
<b>After eye contact</b>	Rinse opened eyes with clean running water for several minutes. Consult a physician if irritation persists.
<b>After swallowing</b>	Rinse mouth and drink water. Do not induce vomiting unless instructed by medical personnel. Consult a physician if symptoms persist.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available. Dust may cause temporary mechanical irritation.

### 4.3 Indication of immediate medical attention and special treatment needed

No further relevant information available. Treat symptomatically.

## SECTION 5: Firefighting measures

Item	Information
<b>Suitable extinguishing media</b>	CO <sub>2</sub> , extinguishing powder, water spray, or alcohol-resistant foam. Fight larger fires with water spray.
<b>Unsuitable extinguishing media</b>	No specific restriction known.
<b>Special hazards arising from the substance or mixture</b>	Carbon monoxide and carbon dioxide may be released under fire conditions. Dust from powder products may present a combustible dust risk if dispersed in air at sufficient concentration.
<b>Advice for firefighters</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA). Avoid inhalation of combustion products.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep personnel away from the clean-up area. Wear appropriate personal protective equipment. Avoid dust generation during clean-up and avoid breathing dust.

### 6.2 Environmental precautions

Do not allow material to be released into the environment without proper governmental permits. Prevent entry into drains, surface water, and soil where practicable.

### 6.3 Methods and material for containment and cleaning up

Collect mechanically using dry clean-up methods. In manufacturing or large-scale operations, use proper absorbent or collection materials and avoid generating dust. Place collected material in suitable closed containers for disposal or recovery according to local requirements.

### 6.4 Reference to other sections

See Section 7 for safe handling, Section 8 for personal protection, and Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep containers tightly sealed. Handle in well-ventilated areas. Avoid dust generation and avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Wash hands after handling and before breaks.

Information about protection against explosions and fires: avoid dust accumulation and keep away from sources of ignition. Use appropriate grounding and good housekeeping practices where dust may be generated.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry, clean, and well-ventilated conditions in tightly closed original containers. Protect from moisture, heat, direct sunlight, and strong oxidizing agents. Keep away from incompatible materials and odorous substances.

## 7.3 Specific end use(s)

No further relevant information available beyond feed raw material use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components with critical values that require monitoring at the workplace: not established for this mixture. Observe local nuisance dust exposure limits where applicable.

### 8.2 Exposure controls

Control / PPE	Requirement
Engineering controls	Provide suitable ventilation where dust is generated. Maintain an ergonomically appropriate working environment and good housekeeping.
General protective and hygienic measures	Wash hands during breaks and at the end of work. Do not eat, drink, or smoke when handling the product.
Respiratory protection	Use a dust mask or particle respirator when ventilation is insufficient or dust generation is significant.
Hand protection	Check protective gloves prior to each use. Use suitable gloves for prolonged or repeated handling.
Eye protection	Safety glasses are recommended where dust may be generated.
Body protection	Protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Property	Result
Appearance	Powder
Colour	White to off-white or pale yellow
Odour	Characteristic slight fatty/butyric odour
pH value	Not determined
Melting point / melting range	Not determined for mixture
Boiling point / boiling range	Not applicable for powder mixture; tributyrin reference boiling point is not used as product specification
Flash point	Not determined
Flammability	Not determined; avoid dust generation and ignition sources
Ignition temperature	Not determined
Decomposition temperature	Not determined
Danger of explosion	Product is not classified as explosive; dust clouds may present explosion risk under certain industrial conditions
Density / bulk density	Not determined; refer to product specification if available
Solubility in water	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not determined
Viscosity	Not applicable to powder form

### 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

Item	Information
Reactivity	No information known under normal conditions of use.
Chemical stability	Stable under recommended storage conditions.
Thermal decomposition / conditions to avoid	No decomposition if used and stored according to specifications. Avoid moisture, heat, direct sunlight, dust accumulation, and ignition sources.
Possibility of hazardous reactions	No dangerous reactions known under normal handling and storage conditions.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide may be formed under fire conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Endpoint	Information
Acute toxicity	No information known for the mixture.
LD/LC50 values relevant for classification	No data available.
Skin irritation or corrosion	May cause mild mechanical irritation due to dust.
Eye irritation or corrosion	May cause mild mechanical irritation due to dust.
Sensitisation	No sensitizing effect known.
Germ cell mutagenicity	No effect known.
Carcinogenicity	No classification data on carcinogenic properties of this material is available from major classification sources.
Reproductive toxicity	No effect known.
STOT - repeated exposure	No effect known.
STOT - single exposure	No effect known.
Aspiration hazard	Not applicable to powder form.
Additional toxicological information	To the best of our knowledge, the acute and chronic toxicity of this product has not been fully determined. Handle according to good industrial hygiene and safety practice.

## SECTION 12: Ecological information

Item	Information
Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
General notes	Do not allow material to be released to the environment without proper governmental permits. Generally not hazardous for water based on available information.
PBT/vPvB assessment	Not applicable based on available information.
Other adverse effects	No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendation: hand over to an approved waste disposal contractor. Disposal must be made according to official, national, and local regulations. Do not discharge into drains or the environment.

Uncleaned packaging: dispose of packaging according to official regulations. Empty packaging may contain product residues.

## SECTION 14: Transport information

Transport Item	Information
UN Number	ADR, IMDG, IATA: None
UN proper shipping name	ADR, IMDG, IATA: None
Transport hazard class(es)	ADR, IMDG, IATA: Class: None
Packing group	ADR, IMDG, IATA: None
Environmental hazards	Not applicable
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
Transport / additional information	Not dangerous according to the above specifications

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet has been prepared for the supplied feed-grade powder mixture based on available information and the reference liquid product SDS. Users must verify compliance with applicable local feed, chemical, transport, and workplace safety regulations before use.

Information about limitation of use: for use by technically qualified individuals. Water hazard class: generally not hazardous for water based on available information.

Substances of very high concern (SVHC) according to REACH, Article 57: not listed based on available supplier information. REACH pre-registered substances: not specified for mixture.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

### **SECTION 16: Other information**

---

The information contained in this Material Safety Data Sheet is based on available data and is believed to be accurate as of the issue date. It is provided for guidance on safe handling, use, processing, storage, transport, disposal, and release. This information is furnished without warranty, and users are responsible for determining suitability for their own operations and compliance with applicable laws and regulations.

This MSDS was prepared for Tributyrin Powder with reference to the supplied Monobutyryn liquid MSDS and adjusted for powder-form handling considerations, including dust control, mechanical irritation potential, and powder storage requirements.