# **Triphenylbismuth**

Version number: 2

**Issued:** 2024-02-05 **Replaces SDS:** 2023-08-04



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

#### 1.1. Product identifier

#### Trade name

Triphenylbismuth

#### CAS number

603-33-8

#### EC number

210-033-4

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

## Relevant identified uses

Research and development.

#### Not suitable for use in

Not suitable for human consumption or veterinary purposes.

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

#### Supplier

Molekula Group

#### Address

Molekula Ltd, Lingfield Way, Darlington, DL1 4XX Darlington United Kingdom

### Telephone

+44 (0) 3302 000 333

#### **Email**

info@molekula.com

#### Web site

www.molekula.com

#### Contact person

Kevin Banks

#### Email

+44 (0) 7769276927

## 1.4. Emergency telephone number

## Poison center/Additional emergency number

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

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#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

## Classification

Acute toxicity, oral, hazard category 4
Acute toxicity, dermal, hazard category 4
Acute toxicity, inhalation, hazard category 4

#### Hazard statements

H302, H312, H332

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

## Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

#### **Precautionary statements**

P261 Avoid breathing.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water/.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to local regulations.

#### 2.3. Other hazards

No data available

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## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Triphenylbismuth	603-33-8 210-033-4 -	100%	Acute Tox. 4 - oral, Acute Tox. 4 - dermal, Acute Tox. 4 - inhalation	-	-

#### Molecular weight

440.30

## Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **Inhalation**

Move to fresh air if inhaled.

Get medical attention if any discomfort continues.

### Skin contact

Rinse skin with water.

If skin irritation or rash occurs: Get medical advice/attention.

#### Eye contact

Remove contact lenses if present. Rinse eyes with water.

If eye irritation persists: Get medical advice/attention.

## **Ingestion**

Rinse mouth.

Get medical advice/attention if you feel unwell.

#### Information for doctors

No data available.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### **Inhalation**

May cause respiratory irritation.

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#### Skin contact

Prolonged contact may cause dryness of the skin.

#### Eye contact

May be slightly irritating to the eyes.

#### **Ingestion**

May cause discomfort if swallowed.

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

Treat symptomatically. No special treatment requirement.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

### Unsuitable extinguishing media

No specific fire fighting procedure given.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO2).

Heavy metal oxides.

### 5.3. Advice for firefighters

## Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

## **SECTION 6: Accidental release measures**

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

Provide adequate ventilation. For personal protection, see section 8.

#### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

## 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

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## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Preventive handling precautions

Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid ingestion and inhalation. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Wash skin thoroughly after handling.

#### General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Wash skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store at ambient temperature. Store in a dry place. Store in a closed container. Store under inert gas. Moisture Sensitive.

### 7.3. Specific end use(s)

No specific usage precautions noted.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure limits**

No occupational exposure limit assigned.

## 8.2. Exposure controls

#### Personal Protective Equipment Symbols













## Eye / face protection

Wear eye protection.

#### **Hand protection**

Wear protective gloves.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Wash contaminated skin thoroughly after handling.

#### Other skin protection

Wash skin thoroughly after handling.

#### Respiratory protection

Provide adequate ventilation.

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## **Environmental exposure controls**

Avoid discharge into drains.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties *Physical state*

Solid

#### Colour

White / off-white.

#### <u>Odour</u>

Odourless.

## Melting point / freezing point

77 - 78 °C

## Boiling point or initial boiling point and boiling range

242 °C

#### **Flammability**

This product is not flammable.

#### Lower and upper explosion limit

No data available

## Flash point

No data available

### **Auto-ignition temperature**

No data available

### **Decomposition temperature**

No data available

#### pН

No data available

## Kinematic viscosity

No data available

#### **Solubility**

Insoluble.

## Partition coefficient n-octanol/water

No data available

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## Vapour pressure

10 hPa

#### Density and/or relative density

No data available

## Relative vapour density

No data available

#### Particle characteristics

No data available

#### 9.2. Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

## 10.2. Chemical stability

Stable under the prescribed storage conditions. Moisture Sensitive.

#### 10.3. Possibility of hazardous reactions

No data available

## 10.4. Conditions to avoid

Incompatible materials.

#### 10.5. Incompatible materials

Strong oxidising agents. Moisture.

## 10.6. Hazardous decomposition products

Thermal decomposition can lead to the release of irritating gases and vapours.

Carbon monoxide (CO). Carbon dioxide (CO2).

Heavy metal oxides.

## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Acute toxicity</u>

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
Triphenylbismuth	LD50	180 mg/kg	Intravenous.	Mouse

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
603-33-8 / 210-033-4				
Triphenylbismuth 603-33-8 / 210-033-4	LD50	180 mg/kg	Intravenous.	Mouse

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

No data available

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## **Disposal considerations**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## **SECTION 14: Transport information**

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

## 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## National regulations

No data available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

## Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Acute Tox. 4 - dermal - Acute toxicity, dermal, hazard category 4

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

H302 Harmful if swallowed.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.