

Safety Data Sheet

#11733427 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Triphenylantimony	603-36-1	(C6H5)3Sb	10	24 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name Triphenylantimony

CAS number 603-36-1

EC / EINECS number 210-037-6

Chemical formula (C6H5)3Sb

Molecular weight 353.07

SMILES C1=CC=C(C=C1)[Sb](C2=CC=CC=C2)C3=CC=CC=C3

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

For research and development. Laboratory chemicals. Manufacture of substances.
Not suitable for human or veterinary purposes

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Acute Tox. 3; H301
Acute Tox. 4; H332
Aquatic Chronic 2; H411

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
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H301	Toxic if swallowed
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

CODE	PRECAUTIONARY STATEMENT
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P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P309+311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician

2.3 Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.
This product does not contain any known or suspected Endocrine disruptors.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Triphenylantimony
CAS number	603-36-1
EC number	210-037-6
Concentration / purity	~100.0%
Classification according to Regulation (EC) No 1272/2008	Acute Tox. 3; H301 Acute Tox. 4; H332 Aquatic Chronic 2; H411
Hazard statements	H301, H332, H411
Acute toxicity estimate (ATE)	Not reported
Impurities / stabilising additives	<i>Not applicable</i>

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move affected person to fresh air, keep warm and at rest, and maintain an open airway; seek medical attention.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Continue to rinse for at least 15 minutes. Get medical advice/attention if you feel unwell.
Eye contact	Remove contact lenses and rinse with water; seek medical attention if discomfort continues.
Ingestion	IF SWALLOWED: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only if the persons are fully conscious and awake). Administer activated charcoal (20 - 40g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Headache, exhaustion, weakness, stomach pain, vomiting, skin dryness, and slight eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and keep under observation.

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	No limitation of extinguishing media given. Do not use a water jet

5.2 Special hazards arising from the substance or mixture

Toxic

Combustible

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Antimony oxides

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases/vapours possible in case of fire.

5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus and protective clothing; keep upwind and cool containers with water spray.

Suppress (knock down) gases/vapours/mists with water. Prevent fire extinguishing water from contaminating surface water or the ground water system

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing, avoid dust inhalation, and use respiratory protection if ventilation is inadequate. For personal protection, see section 8.

6.2 Environmental precautions

Avoid discharge into drains, watercourses, or the environment.

6.3 Methods and material for containment and cleaning up

Collect spillage with shovel and broom, place in suitable containers, and flush contaminated area with water.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Work under hood. Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
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Conditions for safe storage (incompatibilities)	Keep container tightly closed. Store in a dry place. Store in a closed container. Storage class 6.1C
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7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL)	Triphenylantimony (603-36-1) TWA: 0.5mg/3. UK. EH40. WEL- Workplace exposure limits
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DNEC/PNEC data	Provide adequate general and local exhaust ventilation.
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8.2 Exposure controls

Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Gloves: Nitrile Rubber, 0.11mm (480 mins).
Respiratory protection	Self-contained breathing apparatus Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
Other protection	Protective clothing
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure compliance with environmental protection legislation; use fume scrubbers or filters if necessary.

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Crystalline solid DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Pungent DERIVED FROM: LITERATURE
Melting / freezing point	52-54°C DERIVED FROM: LITERATURE
Boiling point	377°C DERIVED FROM: LITERATURE
Flammability	No data available. DERIVED FROM: LITERATURE
Lower and upper explosion limit	No data available. DERIVED FROM: LITERATURE
Flash point	113 °C DERIVED FROM: LITERATURE
Auto-ignition temperature	No data available. DERIVED FROM: LITERATURE
Decomposition temperature	No data available. DERIVED FROM: LITERATURE
pH	No data available. DERIVED FROM: LITERATURE
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	No data available. DERIVED FROM: LITERATURE

Solubility	Insoluble in water. DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	6.02 DERIVED FROM: LITERATURE
Vapour pressure	<0.01 mm Hg @ 25°C/77°F DERIVED FROM: LITERATURE
Density (g/mL)	1.434 g/mL DERIVED FROM: LITERATURE
Relative vapour density	No data available. DERIVED FROM: LITERATURE
Particle characteristics	No data available. DERIVED FROM: LITERATURE

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4 Conditions to avoid

Avoid heat.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) LD50 Oral - Rat - 183 mg/kg
Acute toxicity estimate (ATE) Inhalation - 4 h - 1.51 mg/l - dust/mist

Skin corrosion / irritation Based on available data the classification criteria are not met.

Eye corrosion / irritation	May be slightly irritating to eyes.
Respiratory / skin sensitisation	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
STOT (single / repeated exposure)	Based on available data the classification criteria are not met.
Aspiration hazard	Not relevant.

11.2 Information on other hazards

Not considered an endocrine disruptor

SECTION 12

Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

The degradability of the product is not known.

12.3 Bioaccumulative potential

No data available on bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH Annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH Annex XIII

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information**14.1 UN number or ID number**

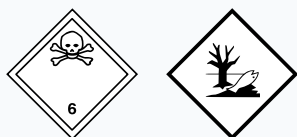
UN2811

14.2 UN proper shipping name

TOXIC SOLID, ORGANIC, N.O.S.

14.3 Transport hazard class(es)

6.1

**14.4 Packing group**

III

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6 Special precautions for user

Special precautions for user Always transport in closed containers that are upright and secure; ensure persons transporting the product know what to do in the event of an accident or spillage.

Transport category 2

Tunnel code (E)

Packing instruction (ADR) P002

Packing instruction (IMDG) P002

14.7 Maritime transport in bulk according to IMO instruments*No data available*

SECTION 15

Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Substance-specific regulations (e.g. licences) Health and Safety at Work etc. Act 1974, The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, EH40/2005 Workplace exposure limits.

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

No

SECTION 16

Other information

Revision notes / other information

This version (v10) was created on 24.09.2026 and replaces v1 (15.06.2022) with no changes.

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.