


TRADEGE

FOREIGN TRADE COMPANY

SAFETY DATA SHEET

Antimony Trioxide

According to Regulation (EC) No 1907/2006, Annex II, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name	Antimony Trioxide
REACH registration number	01-2119475613-35-0000
CAS number	1309-64-4
EU index number	051-005-00-X
EC number	215-175-0

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

Identified uses	Flame retardant in plastics, paints, rubber, textiles. PET Catalyst. Pigment.
Uses advised against	No specific uses advised against are identified. Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier	Tradege Foreign Trade Company Adalet Mah. Manas Blv. No. 39 Bayrakli, Izmir Tel: +90 506 450 9208 export@tradege.com.tr
Only Representative	Cambridge Environmental Assessments, part of RSK ADAS Europe (Ireland) Ltd, Address: Office Suite B, Bluebell Business Centre, Old Naas Road, Dublin, D12XV7K, Ireland Peter Godfrey Peter.Godfrey@cea-res.co.uk Neil Stearn Neil.Stearn@cea-res.co.uk

1.4. Emergency telephone number

Emergency telephone	Call the supplier's phone number.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Carc. 2 - H351
Environmental hazards	Not Classified

2.2. Label elements

EC number	215-175-0
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Hazard pictograms



Signal word	Warning
Hazard statements	H351 Suspected of causing cancer.

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Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	Antimony Trioxide
REACH registration number	01-2119475613-35-0000
EU index number	051-005-00-X
CAS number	1309-64-4
EC number	215-175-0
Amount w/w	> 98%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. Get medical advice/attention if you feel unwell.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Do not rub eye. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Coughing. Suspected of causing cancer.
Ingestion	May cause discomfort. Nausea, vomiting. Prolonged or repeated exposure may cause the following adverse effects: Suspected of causing cancer.
Skin contact	Prolonged contact may cause dryness of the skin. Redness. Itchiness.
Eye contact	May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Avoid generation and spreading of dust. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.
See Section 11 for additional information on health hazards.
See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not reuse empty containers. Avoid generation and spreading of dust. Prevent accumulation of dust. Avoid inhalation of dust and contact with skin and eyes. Good personal hygiene procedures should be implemented.


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Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Protect from moisture. Protect from sunlight. Keep away from heat, sparks and open flame.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): ACGIH 0.5 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

DNEL - Dermal; Short term systemic effects: 281 mg/kg bw/d
- Inhalation; Short term systemic effects: 0.5 mg/m³

PNEC Fresh water; 0.135 mg/l
marine water; 0.013 mg/l
Sediment (Freshwater); 13.4 mg/kg, dry weight
Sediment (Marinewater); 2.68 mg/kg, dry weight
STP; 3.05 mg/l
Soil; 44.3 mg/kg, dry weight

8.2. Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Neoprene. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.


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Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405.

Environmental exposure controls Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid (Thin homogeneous powder)
Colour	White.
Odour	Odourless.
Odour threshold	No information available.
pH	No information available.
Melting point	656°C @1013 hPa
Initial boiling point and range	1425°C @ 1013 hPa
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not inflammable.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	Not applicable.
Relative density	5.897 @ 20°C
Solubility(ies)	370 µg/L @ 20°C Insoluble in water. Soluble in the following materials: Strong alkalis. Strong acids.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Technically not feasible.
Viscosity	Not applicable.
Explosive properties	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.



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10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

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

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ >20000 mg/kg bw/d, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.
LD₅₀ >8300 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.
LC₅₀ >5200 mg/m³, Inhalation, Rat

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.
Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.
DNA damage and/or repair: Inconclusive.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.
in vivo mammalian somatic cell study: cytogenicity / bone marrow chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity Suspected of causing cancer.
LOAEC 3 mg/m³, Lungs, Rat


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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.
Fertility - NOAEL 1686 mg/kg bw/d, Oral, Rat

Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.
Developmental toxicity: - NOAEC: 6.3 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Repeated dose toxicity NOAEL 1686 mg/kg bw/d, Oral, Rat (OECD 407)

11.2. Information on other hazards

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: >1000 mg/l, Danio rerio (zebra fish)
LC₅₀, 96 hour: 6.9 mg Sb/L, Pargus major, Marinewater fish
LC₅₀, 96 hour: 14.4 mg Sb/L, Pimephales promelas (Fat-head Minnow), Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: >1000 mg/l, Daphnia magna
EC₅₀, 96 hour: 1.77 mg Sb/L, Chlorohydra viridissimus

Acute toxicity - aquatic plants EC₅₀, 72 hour: 67 mg/l, Selenastrum capricornutum
ErC₅₀, 72 hour: >36.6 mg Sb/L, Pseudokirchneriella subcapitata
EC₅₀, 4 day: >25.5 mg Sb/L, Lemna minor

Acute toxicity - microorganisms NOEC: 2.55 mg Sb/L
EC₅₀: 27 mg Sb/L

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 28 day: 1.74 mg Sb/L, Daphnia magna

Toxicity to soil NOEC, : 2930 mg Sb/kg dry weight, Soil micro-organisms

Toxicity to terrestrial plants NOEC: 999 mg Sb/kg dw

NOEC-Fish 1.13 mg Sb/L (Pimephales promelas)

Sediment Toxicity NOEC: 78 mg Sb/kg (Chironomus riparius)

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

Bioconcentration factor (BCF) 40 (for aquatic organisms)


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12.4. Mobility in soil

Mobility

Insoluble in water.

Adsorption/desorption coefficient

log Kp: 2.07 (solids-water in soil)
log Kp: 3.35 (solids-water in sediment)
log Kp: 3.65 (solids-water in suspended matter)
log Kp: 4.13 (solids-water in raw sewage sludge)
log Kp: 4.22 (solids-water in activated sewage sludge)

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.


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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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	Not relevant.
Substances in the SVHC list	Antimony Trioxide is not on the REACH Candidate List

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.


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SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
	IATA: International Air Transport Association.
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	CAS: Chemical Abstracts Service.
	ATE: Acute Toxicity Estimate.
	LC ₅₀ : Lethal Concentration to 50 % of a test population.
	LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose).
Classification abbreviations and acronyms	EC ₅₀ : 50% of maximal Effective Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.
	Carc. = Carcinogenicity
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
	Carc. 2 - H351: Weight of evidence., Read-across data.
Classification procedures according to Regulation (EC) 1272/2008	Only trained personnel should use this material.
	This is the first issue.
Training advice	Bülent Özdemir / CRAD
	www.crad.com.tr gbf@crad.com.tr
Revision comments	19/02/2026
	3.0
Issued by	03/10/2024
	12347
Revision date	H351 Suspected of causing cancer.
Revision	
Supersedes date	
SDS number	
Hazard statements in full	

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