

Antimony(III) chloride**10774-500G**

Version 1.3

Revision Date 01/31/2023

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Antimony(III) chloride

Number : 000000021021

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : Crystalline powder

Color : white

Odor : No data available

Classification of the substance or mixture

Classification of the substance or mixture : Skin corrosion, Category 1B
Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**

Do not breathe dust or mist.

Wash skin thoroughly after handling.

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

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/ doctor.

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Formula : Cl₃Sb

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Antimony trichloride	10025-91-9	<=100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital.

Ingestion : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give a cupful of water. Call a physician.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

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	Foam Carbon dioxide (CO ₂) Dry powder
Specific hazards during firefighting	: Fire may cause evolution of: Hydrogen chloride gas Antimony oxide Chlorine (Cl ₂)
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	: Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling	: Wear personal protective equipment. Use only in well-ventilated areas. Avoid dust formation. Do not breathe dust.
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Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

StorageConditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep under inert gas.
Protect from atmospheric moisture and water.**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours/dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety glasses with side-shields

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.Skin and body protection : Complete suit protecting against chemicals
Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Keep working clothes separately.
Wash hands before breaks and at the end of workday.**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	Basis
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Antimony trichloride	10025-91-9	REL : Recomm ended exposure limit (REL):	0.5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
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Further information	:	Expressed as : as Sb
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Antimony trichloride	10025-91-9	TWA : Time weighted average	0.5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Expressed as : as Sb
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Antimony trichloride	10025-91-9	PEL : Permissi ble exposure limit	0.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Further information	:	Expressed as : as Sb
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Antimony trichloride	10025-91-9	TWA : Time weighted average	0.5 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
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Further information	:	Expressed as : as Sb
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Crystalline powder

Color : white

Odor : No data available

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Odor threshold : Note: No data available

pH : Note: Not applicable

Melting point/freezing point : 73.4 °C

Boiling point/boiling range : 283 °C at 1.013 hPa

Flash point : Note: Not applicable

Evaporation rate : Note: No data available

Lower explosion limit : Note: No data available

Upper explosion limit : Note: No data available

Vapor pressure : 0.28 hPa
at 20 °C(68 °F)
1.0 hPa
at 49 °C(120 °F)

Vapor density : Note: No data available

Density : 3.140 g/cm³

Water solubility : Note: No data available

Partition coefficient:
n-octanol/water : Note: No data available

Ignition temperature : Note: No data available

Auto-ignition temperature : Note: No data available

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Decomposition temperature : Note: No data available

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Oxidizing properties : Note: No data available

Molecular weight : 228.12 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous decomposition products formed under fire conditions.

Conditions to avoid : Protect from atmospheric moisture and water.
Avoid dust formation.

Incompatible materials : Potassium
Aluminium
Sodium
Bases

Hazardous decomposition products : Hydrogen chloride gas
Antimony oxide
Chlorine (Cl₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: No data available

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Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Note: Classification based on Annex VI of regulation
1272/2008/EC.Eye irritation : Note: Classification based on Annex VI of regulation
1272/2008/EC.

Sensitisation : Note: No data available

Further information
Antimony trichloride : Note:
Causes burns.
Liver and kidney injuries may occur.
Irritating to respiratory system.**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**Toxicity to fish : Note: Classification based on Annex VI of regulation
1272/2008/EC.Toxicity to daphnia and other
aquatic invertebrates : Note: Classification based on Annex VI of regulation
1272/2008/EC.Toxicity to algae : Note: Classification based on Annex VI of regulation
1272/2008/EC.**Elimination information (persistence and degradability)**

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Bioaccumulation : Note: No data available

Biodegradability : Note: Not readily biodegradable.

Further information on ecology**Ecotoxicology Assessment**

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 1733
	Proper shipping name	: Antimony trichloride, solid
	Class	: 8
	Packing group	: II
	Hazard Labels	: 8

IATA	UN/ID No.	: UN 1733
	Description of the goods	: Antimony trichloride, solid
	Class	: 8
	Packaging group	: II
	Hazard Labels	: 8
	Packing instruction (cargo aircraft)	: 863
	Packing instruction (passenger aircraft)	: 859
	Packing instruction (passenger aircraft)	: Y844

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IMDG	UN/ID No.	: UN 1733
	Description of the goods	: Antimony trichloride, solid
	Class	: 8
	Packaging group	: II
	Hazard Labels	: 8
	EmS Number	: F-A, S-B
	Marine pollutant	: yes
	IMDG Code segregation group (SGG1) – ACIDS,	

Inventories

Taiwan Chemical : On the inventory, or in compliance with the inventory

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Substance Inventory (TCSI)

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Antimony trichloride 10025-91-9

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable Quantity : 1000 lbs

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Antimony trichloride 10025-91-9

New Jersey RTK : Antimony trichloride 10025-91-9

Pennsylvania RTK : Antimony trichloride 10025-91-9

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	0

* - Chronic health hazard

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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group