spectrum®



SAFETY DATA SHEET

Preparation Date: 12/14/2016	Revision Date: 12/14/2016	Revision Number: G1	
1. IDENTIFICATION			
Product identifier			
Product code: Product Name:	A1321 ANTIMONY TRICHLORIDE, CRYSTAL, REAGENT		
<u>Other means of identification</u> Synonyms:	Antimoine (trichlorure d') (French) Antimonio (tricloruro di) (Italian) Antimonous chloride Chlorure antimonieux (French) Stibine, trichloro- Trichlorostibine Trichlorure d'antimoine (French)		
CAS #: RTECS # CI#:	10025-91-9 CC4900000 Not available		
Recommended use of the chem	ical and restrictions on use_		
Recommended use: Uses advised against	Catalyst. Reagent. No information available		
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000.		
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)		

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1

Label elements

Danger

Hazard statements Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation May be corrosive to metals



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Absorb spillage to prevent material damage 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 or doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant/ .? container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Antimony Trichloride	10025-91-9	100

4. FIRST AID MEASURES

First aid measures

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
Eye Contact:	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
Most important symptoms and eff	ects, both acute and delayed
Symptoms	Severe skin and eye irritation or burns. Causes eye damage. May cause metallic taste. May cause gastrointestinal (digestive) tract burns. May cause abdominal pain, nausea, vomiting, diarrhea. Diarrhea may be watery or bloody. Irritating to respiratory system. Chest tightness or pain. Coughing and wheezing. Dyspnea (Shortness of breath and difficulty breathing). May cause bronchitis. May cause pulmonary edema. May affect the cardiovascular system.
Indication of any immediate medio	cal attention and special treatment needed
Notes to Physician:	Treat symptomatically.
Protection of first-aiders First-Aid Providers: Avoid exposure contaminated clothing and equipment	to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of nt as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable Extinguishing Media:	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	If it is involved in a fire the following can be released:. Hydrogen Chloride Gas. Antimony/Antimony oxides.
Specific hazards:	No information available.
Special Protective Actions for Firefighters	

Product code: A1321

Specific Methods:

No information available.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not expose spill to water. Do not get water inside containers.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent
spreading.Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated
surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Do not allow contact with water.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Hygroscopic. Moisture sensitive. May corrode metallic surfaces. Do not store in uncoated metallic containers.

Incompatible Materials:

Water Strong bases Strong acids Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Antimony Trichloride	10025-91-9	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Antimony Trichloride	10025-91-9	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Antimony Trichloride	10025-91-9	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles
Skin and body protection:	Chemical resistant apron. Long sleeved clothing. Gloves.
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Solid	Crystals.	White to yellowish.
Odor:	Taste	Formula:
Sharp. Unpleasant.	No information available.	SbCl3
Molecular/Formula weight: 228.12	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Upper Explosion Limit (%):	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):
No information available	73.4°C/164.12°F	No information available
Product code: A1321	Product name: ANTIMONY	5 / 12

Boiling point/range(°C/°F): 223.5 °C/434.3 °F

Specific gravity: 3.14

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Soluble in Acetone Soluble in Chloroform Soluble in Alcohol Soluble in Benzene Soluble in Carbon tetrachloride Soluble in Carbon Disulfide Density (g/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u> Reactive with metals Reacts with water to produce Hydrogen chloride Reactive with oxidizing agents

Chemical stability

Stability:	Hygroscopic. Moisture Sensitive. Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials. Exposure to moisture.
Incompatible Materials:	Water Strong bases Strong acids Metals
Hazardous decomposition products:	When heated to decomposition it emits very toxic fumes. Chlorine. Antimony.
Other Information	

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Eyes. Ingestion. Inhalation.

Acute Toxicity

Corrosivity:

Product code: A1321

Component Information

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Antimony Trichloride			
CAS-No. LD50/oral/rat = 525 mg/kg Or	10025-91-9		
LD50/oral/mouse = No inform			
LD50/dermal/rabbit = No info			
LD50/dermal/rat = No information			
LC50/inhalation/rat = No info			
LC50/inhalation/mouse = No	o infomation available		
Other LD50 or LC50informat	ion = 574 mg/kg oral LD50 Guinea pig		
Product Information			
LD50/oral/rat = VALUE- Acute Tox Oral = 525 r	ng/kg		
LD50/oral/mouse = Value - Acute Tox Oral = No info	ormation available		
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	information available		
LD50/dermal/rat VALUE -Acute Tox Dermal = No	o information available		
LC50/inhalation/rat VALUE-Vapor = No information a			
VALUE-Gas = No information ava VALUE-Dust/Mist = No information			
LC50/Inhalation/mouse VALUE-Vapor = No information a VALUE - Gas = No information a VALUE - Dust/Mist = No informa	vailable		
Symptoms			
Skin Contact:	Causes severe irritation and burns.		
Eye Contact:	Causes severe eye irritation and possible burns. Causes conjunctivitis. May cause permanent eye damage.		
Inhalation Causes respiratory tract (nose, throat, lungs), and mucous membrane irritation. Symptoms may include sore throat, shortness of breath, coughing, wheezing, inflammation of the nasal passages. May cause nausea. May cause anorexia. May cause metallic taste. May cause bronchitis. It may cause pulmonary edema. May cause dizziness and headache. May cause tight feeling in chest and difficulty breathing.			
Ingestion	Harmful if swallowed. Causes digestive or gastrointestinal tract burns. May cause abdominal pain, nausea, vomiting, diarrhea. Diarrhea may be watery or bloody. May cause thirst and a metallic taste. May affect the cardiovascular system.		
Aspiration hazard	Aspiration hazard No information available.		
Delayed and immediate effects	as well as chronic effects from short and long-term exposure		
Product code: A1321	Product name:ANTIMONY7 / 12TRICHLORIDE, CRYSTAL, REAGENT		

Chronic Toxicity	Ingestion/Inhalation: Repeated exposure may cause headache, poor appetite, dry throat, lack of sleep. It may also damage the liver, heart, especially with frequent or higher exposures. Other signs and symptoms of chronic exposure may include ECG changes, laryngitis, tracheitis, bronchitis, pneumonitis, pneumoconiosis, ulceration of the nasal septum, and larynx. Prolonged or repeated ingestion may also affect the blood (pigmented or nucleated red blood cells, changes in cell count, changes in serum composition). Skin: Repeated or prolonged skin contact may contact allergy. It may also cause papules, and pustules around sweat and sebaceous glands.
Sensitization:	No information available.
Mutagenic Effects:	No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Antimony Trichloride	10025-91-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity		e toxicity	No data is available				
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Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	Respiratory system.
STOT - repeated exposure	No information available.
Target Organs:	Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

- Persistence and degradability: No information available
- **Bioaccumulative potential:** No information available.
- Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Antimony Trichloride	10025-91-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT UN-No: Proper Shipping Name: Hazard Class: Subsidiary Class Packing group: Emergency Response Guide Number Marine Pollutant DOT RQ (lbs): Special Provisions Symbol(s): Description:	UN1733 Antimony trichloride, solid 8 No information available II 157 No data available No information available IB8, IP2, IP4, T3, TP33 No information available UN1733, Antimony trichloride, solid, 8, II
TDG (Canada) UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant Description:	UN1733 Antimony trichloride, solid 8 No information available II No Information available UN1733, Antimony trichloride, solid, 8, II
ADR UN-No: Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk: Description:	UN1733 Antimony trichloride 8 II No information available UN1733, Antimony trichloride, 8, II, ENVIRONMENTALLY HAZARDOUS
IMO / IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS: Description	UN1733 Antimony trichloride, solid 8 No information available II No information available F-A UN1733, Antimony trichloride, 8, II, Marine pollutant
RID UN-No: Proper Shipping Name:	UN1733 Antimony trichloride
Product code: A1321	Product name: ANTIMONY

Hazard Class:	8
Subsidiary Risk:	No information available
Packing Group:	II
Description:	UN1733, Antimony trichloride, 8, II, ENVIRONMENTALLY HAZARDOUS

ICAO

CAU	
UN-No:	UN1733
Proper Shipping Name:	Antimony trichloride
Hazard Class:	8
Subsidiary Risk:	No information available
Packing Group:	II
Description:	UN1733, Antimony trichloride, 8, II

ΙΑΤΑ

UN-No:	UN1733
Proper Shipping Name:	Antimony trichloride
Hazard Class:	8
Subsidiary Risk:	No information available
Packing Group:	II
ERG Code:	8L
Special Provisions	No information available
Description:	UN1733, Antimony trichloride, 8, II

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Antimony Trichloride	10025-91-9	Present	Present KE-01889	Present	Present (1)-256	Present	Present	Present 233-047-2

U.S. Regulations

Antimony Trichloride Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 0147 New Jersey - Discharge Prevention - List of Hazardous Substances: Present Pennsylvania RTK: Environmental hazard Pennsylvania RTK - Environmental Hazard List Present Pennsylvania RTK - Special Hazardous Substances Present New York Release Reporting - List of Hazardous Substances: = 1000 lb RQ = 100 lb RQ Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Antimony Trichloride	10025-91-9	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Antimony Trichloride	10025-91-9	= 454 kg final RQ	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Antimony Trichloride	10025-91-9	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

E Corrosive material

Components	WHIMHAZ
Antimony Trichloride	E

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Antimony Trichloride	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Antimony Trichloride	10025-91-9	Present	Not Listed
-			

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Antimony Trichloride	10025-91-9	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Antimony Trichloride	10025-91-9	Not listed

EU Classification

R-phrase(s)

R34 - Causes burns.

R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

S 1/2 - Keep locked up and out of the reach of children.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Antimony Trichloride	10025-91-9	C; R34 N; R51-53	10%<=C: C; R34 5%<=C<10%: Xi; R36/37/38	S1/2 S26 S45 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Product code: A1321

C - Corrosive.

N - Dangerous for the environment.



16. OTHER INFORMATION

Preparation Date:	12/14/2016
Revision Date:	12/14/2016
Prepared by:	Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet