

Material Safety Data Sheet

Antimony(V)-Pentachloride, Anhydrous, 99%

ACC# 34264

Section 1 - Chemical Product and Company Identification

MSDS Name: Antimony(V)-Pentachloride, Anhydrous, 99%

Catalog Numbers: AC201210000, AC201210010, AC201210500, AC201212500, AC201215000

Synonyms: Antimonic Chloride.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7647-18-9	Antimony(V)-Pentachloride	99	231-601-8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless to yellow liquid.

Danger! Corrosive. Causes eye and skin burns. Causes digestive and respiratory tract burns. Water-reactive. Harmful if inhaled. May be harmful if swallowed. May cause reproductive and fetal effects.

Target Organs: None.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns. May cause perforation of the digestive tract.

Inhalation: Harmful if inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic: May cause reproductive and fetal effects.

Section 4 - First Aid Measures

Eyes: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: Do NOT use water directly on fire. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Cool containers with flooding quantities of water until well after fire is out.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 1; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Do not get water inside containers. Use

water spray to reduce vapors or divert vapor cloud drift.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Discard contaminated shoes.

Storage: Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket. Corrosives area. Water free area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Antimony(V)-Pentachloride	0.5 mg/m3 TWA (listed under Antimony).	0.5 mg/m3 TWA (listed under Antimony).0.5 mg/m3 TWA (as Sb) (listed under Antimony compounds).50 mg/m3 IDLH (listed under Antimony).	0.5 mg/m3 TWA (listed under Antimony).0.5 mg/m3 TWA (as Sb) (listed under Antimony compounds).

OSHA Vacated PELs: Antimony(V)-Pentachloride: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: colorless to yellow

Odor: Offensive odor.

pH: Not available.

Vapor Pressure: 1 mm Hg @ 20 C

Vapor Density: 10.0

Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: 140 deg C (decomposes)

Freezing/Melting Point:2.8 deg C

Decomposition Temperature:77 deg C

Solubility: Reacts with water.

Specific Gravity/Density:2.3

Molecular Formula:Cl5Sb

Molecular Weight:298.975

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, contact with water, temperatures above 50°C (122°F), exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents and moist air or water.

Hazardous Decomposition Products: Hydrogen chloride, irritating and toxic fumes and gases, antimony/antimony oxides, chlorine.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 7647-18-9: CC5075000

LD50/LC50:

CAS# 7647-18-9:

Inhalation, mouse: LC50 = 620 mg/m3;

Inhalation, rat: LC50 = 720 mg/m3/2H;

Oral, rat: LD50 = 1115 mg/kg;

Carcinogenicity:

CAS# 7647-18-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Experimental reproductive effects have been reported.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	ANTIMONY PENTACHLORIDE, LIQUID	ANTIMONY PENTACHLORIDE, LIQUID
Hazard Class:	8	8
UN Number:	UN1730	UN1730
Packing Group:	II	II

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7647-18-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 7647-18-9: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7647-18-9: immediate, delayed, reactive.

Section 313

This material contains Antimony(V)-Pentachloride (listed as Antimony), 99%, (CAS# 7647-18-9) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 7647-18-9 (listed as Antimony compounds) is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 7647-18-9 is listed as a Hazardous Substance under the CWA. CAS# 7647-18-9 is listed as a Priority Pollutant under the Clean Water Act. CAS# 7647-18-9 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7647-18-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Antimony), Minnesota, (listed as Antimony compounds), Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 34 Causes burns.

R 37 Irritating to respiratory system.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7647-18-9: No information available.

Canada - DSL/NDSL

CAS# 7647-18-9 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7647-18-9 (listed as Antimony) is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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MSDS Creation Date: 6/12/1998

Revision #3 Date: 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.