

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Antimony (III) chloride

## 1. Product and Company Identification

Trade Name: Chemical Formula:	Antimony (III) chloride SbCl <sub>3</sub>
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H314: Causes severe skin burns and eye damage.
nazaru Statements.	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
	P264: Wash skin thoroughly after handling.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce
	vomiting.
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all
	contaminated clothing. Rinse skin with water/shower.
	P304+P340+P310: IF INHALED: Remove person to fresh air and keep
	comfortable for breathing. Immediately call a POISON
	CENTER/doctor.
	P305+P351+P338+P310: 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.
	P363: Wash contaminated clothing before reuse.
	P301: Collect spillage.
	P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal
	plant
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	

	3. Composition
Chemical Family:	Ceramic
Additional Names:	Antimony trichloride
Antimony (III) chloride (SbCl <sub>3</sub> ):	
Percentage:	100 wt%
CAS #:	10025-91-9
EC #:	233-047-2
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
E.	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water due to its inefficiency – use CO <sub>2</sub> , sand, extinguishing
	powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Use neutralizing agent. Vacuum up
	spill using a high efficiency particulate absolute (HEPA) air filter and
Environmental Precautions:	place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
Environmental Precations.	isolate fution to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Avoid contact with skin and eyes.
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store away from
Storage Conditions:	water/moisture, strong bases, oxidizing agents. Reacts violently with
	water. Store under dry inert gas. This product is moisture sensitive.
	Protect from humidity and water. Store apart from materials and
	conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
, , , , , , , , , , , , , , , , , , ,	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Ex	xposure Controls and Personal Protection
Permissible Exposure Limits:	0.5 mg/m <sup>3</sup> as Sb, long-term value
Threshold Limit Value:	0.5 mg/m <sup>3</sup> as Sb, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9.	Physical and Chemical Characteristics
Color	White
Form:	Crystalline
Odor:	Pungent
Water Solubility:	Soluble, decomposes
Boiling Point:	223.5°C
Melting Point:	73.4°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.14 g/cc
Molecular weight:	228.11 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, water/moisture, bases
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, antimony oxides, hydrogen chloride
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Swallowing will lead to a strong corrosive effect on mouth and throa and to the danger of perforation of esophagus and stomach
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A N/A
Berututed model Conditions.	1.7.1
Median Lethal Dose:	525 mg/kg for rat by mouth
Carcinogen:	IARC: No component of this product present at levels greater than o equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

	12. Ecological Information
Aquatic Toxicity:	Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 9 mg/l - 96 h
Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 10.1 mg/l - 48 h
	Toxicity to algae: IC50 - Tetrahymena pyriformis, Ciliate - 6 mg/l –36 N/A
	Not readily biodegradable. Do not allow material to be released to the environment without proper
	governmental permits. Do not allow product to reach ground water, water course or sewage system.
	Danger to drinking water if even extremely small quantities leak into the ground.
	Also poisonous for fish and plankton in water bodies.
	May cause long lasting harmful effects to aquatic life.
	Very toxic to aquatic organisms.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state.	national and international regulations
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	14. Transportation Data
Hazardous:	
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Hazardous: Hazard Class:	14. Transportation Data Hazardous as powder only.
Hazard Class: Packing Group:	14. Transportation Data Hazardous as powder only.
Hazardous: Hazard Class: Packing Group: UN Number:	14. Transportation Data Hazardous as powder only.
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Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	14. Transportation Data Hazardous as powder only.
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	14. Transportation Data Hazardous as powder only.
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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

05/31/2020