

## Diantimony trioxide MATERIAL SAFETY DATA SHEET

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SECTION 1: Chemical Name			
Chemical name:	Diantimony trioxide	English name:	Diantimony trioxide
Technical specification code:	1	CAS NO:	1309-64-4
Production company name:	Zhuzhou Ante New Material Technology Co., Ltd.		
address:	No. 2 Longshan Road, Youzhou Industrial Park, Youxian, Zhuzhou, Hunan, China		
effective date	2020		
SECTION 2: Ingredient / Composition Information			
Composition	content	CAS NO.	
Diantimony trioxide (Sb <sub>2</sub> O <sub>3</sub> )	≥99.0%	1309-64-4	
SECTION 3: Overview of dangers			
Risk category:	Type 6.1		
Invasion route:	Swallow, inhale		
Health hazard:	Prolonged inhalation of dust can cause lung disease.		
Environmental hazard:	Toxic to aquatic life with long lasting effects.		
Explosion hazard:	This product is non-combustible.		
SECTION 4: First aid measures			
skin contact:	Remove contaminated clothing and rinse with running water.		
eye contact:	Lift your eyelids and rinse with running water or saline.		
Inhalation:	Quickly leave the scene to fresh air. If breathing is difficult, give oxygen. Seek medical attention.		
Ingestion:	Rinse mouth and do not induce vomiting. Seek medical attention immediately.		
SECTION 5: Fire Fighting Measures			
Dangerous characteristics:	No explosion hazard.		
Hazardous combustion products:	Antimony fumes.		

Fire fighting methods:	Firefighters must wear full-body fire and gas protective clothing to extinguish the fire in the upwind direction. Whenever possible, move the container from the fire to an open space.		
SECTION 6: Spill Response			
Emergency treatment:	Isolate leaking contaminated areas and restrict access. It is recommended that emergency handlers wear dust masks (full face masks) and protective clothing. Avoid dust, carefully sweep them up, and place them in a bag and transfer them to a safe place. If a large amount of leakage, use plastic cloth, canvas Covered: Collected for recycling or transported to a waste disposal site for disposal.		
SECTION 7: Handling and Storage			
Notes on operation:	Closed operation, local exhaust. Operators must undergo special training and strictly abide by the operating procedures. It is recommended that operators wear self-priming filter dust masks, chemical safety protective glasses, anti-poison infiltration overalls, and latex gloves. Avoid dust generation Avoid contact with oxidants. Handle lightly during handling to prevent damage to the package. Equipped with leak emergency treatment equipment. Empty containers may contain harmful substances.		
Precautions for storage:	Stored in a cool, ventilated warehouse. Keep away from fire and heat sources. It should be stored separately from oxidants, and should not be mixed. The storage area should be equipped with suitable materials to contain spills.		
SECTION 8: Exposure Controls / Personal Protection			
Monitoring method:	Atomic absorption spectroscopy.		
engineering control:	Closed operation, local exhaust.		
Respiratory protection:	When the dust concentration in the air exceeds the standard, it is recommended to wear a self-priming filter-type dust respirator. You should wear an air respirator during emergency rescue or evacuation.		
Eye protection:	Wear chemical safety protective glasses.		
Body protection:	Wear protective clothing that penetrates the poison.		
Hand protection:	Wear latex gloves.		
Other protection:	After work, bathe and change clothes. Pay attention to personal hygiene.		
SECTION 9: Physical and Chemical Properties			
Appearance and properties:	White powder. Granular crystal and equiaxed crystal.		
Melting point (°C):	656	Relative density (water = 1):	5.67
Boiling point (°C):	1550	Relative vapor density (air = 1):	
Molecular formula:	NaSbO <sub>3</sub>	Molecular weight:	291.50
Main ingredients:	Content: Sb <sub>2</sub> O <sub>3</sub> ≥99.0%		
Solubility:	Soluble in sodium hydroxide solution, hot tartaric acid solution, hydrogen tartrate solution and sodium sulfide solution, slightly soluble in water 370 ± 37 μg / L, dilute nitric acid and dilute sulfuric acid		
The main purpose:	Flame retardants for various resins, synthetic rubbers, canvas, paper coatings, etc.; activating agents for fluorescent powder; raw materials for making mordants, opals and synthetic antimony salts; additives for enamel industry to increase the opacity		

	and surface gloss of enamel; decolorizing agents for replacing arsenite in glass industry; catalysts for petrochemical industry and synthetic fibers
Other physical and chemical properties:	
SECTION 10: stability and reactivity	
stability:	Stored and used under normal ambient temperature, this product is stable.
Incompatibility:	Strong oxidants.
Conditions to avoid:	Electrostatic discharge, heat, humidity, etc.
SECTION 11: Toxicology Information	
Acute toxicity:	It is irritating to the respiratory tract, digestive tract, and skin.
Subacute and chronic toxicity:	Affects material metabolism in the body, nervous system, myocardium.
Carcinogenicity:	no data
SECTION 12: Disposal	
Waste nature:	
Disposal methods:	Recycle as much as possible. Dispose of by safe landfill.
Disposal considerations:	
SECTION 13: Transport Information	
Dangerous goods category:	Type 6.1
un number:	UN1549
Packaging mark:	
Packing category:	Packing Group III
method of packing:	25kg woven bag, 25kg kraft paper bag, 25kg paper-plastic composite bag, 1000kg container bag, etc.
Transport considerations:	The package must be complete when loading, and the loading should be secure. During the transportation, ensure that the container part leaks, does not collapse, does not fall, and is not damaged. It is strictly prohibited to mix and transport with oxidants. During transportation, it shall be protected from exposure to sunlight, rain and high temperature.
SECTION 14: Regulatory Information	
Regulatory Information:	This version is version 1.0, compiled according to the GB/T 16483-2008、GB/T 17519-2013、GB 30000 series classification standards
SECTION 15: Additional Information	
Filling unit:	Zhuzhou Ante New Material Technology Co., Ltd.
other information:	