


Safety Data Sheet (SDS)

Antimony Trichloride

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Substance name(Product name):	Antimony Trichloride
Company name:	NIHON SEIKO CO., LTD.
Address	3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO 162-0822 JAPAN
Charge section	SALES DEPT.
Phone number	+81-3-3235-0031
Fax number	+81-3-3235-0034
E-mail address	mail@nihonseiko.co.jp
Emergency telephone number	NAKASE REFINERY QUALITY ASSURANCE SECTION +81-79-667-2121
Recommended use and restriction on use:	Industrial materials: Catalyst, Pigments, Mordants

2.HAZARDS IDENTIFICATION

GHS classification :	
Health hazards	Acute toxicity (Oral) : Category 4 Skin corrosion / irritation : Category 1C Eye damage / irritation : Category 1 Germ cell mutagenicity : Category 2 Specific target organ toxicity (STOT, single exposure) : Category 2 (Respiratory organs) Specific target organ toxicity (STOT, repeated exposure) : Category 1 (blood system)
Environmental Hazards	Hazardous to the aquatic environment : Category 1 Hazardous to the aquatic environment -Long-term: : Category 1
GHS label:	
Hazard pictogram	
Signal word	Danger
Hazard statements	Harmful if swallowed Causes severe skin burns and eye damage Suspected of causing genetic defects May cause damage to organs (Respiratory organs) Causes damage to organs (blood system) through prolonged or repeated exposure Very toxic to aquatic life Very toxic to aquatic life with long lasting effects

<p>After ingestion:</p> <p>Most important symptoms and effects, both acute and delayed:</p> <p>Protection of person who do first aid:</p> <p>Special precaution statement for doctor:</p>	<p>Rinse mouth. Do not induce vomiting. Call a POISON CENTER /doctor/ if you feel unwell.</p> <p>No information.</p> <p>No information.</p> <p>No information.</p>
<p>5.Fire-fighting measure</p> <p>Extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>Special hazards arising from the Substance or mixture:</p> <p>Specific fire-fighting:</p> <p>Protection for fire-fighter:</p>	<p>Dry chemical / Carbon dioxide fire extinguisher</p> <p>The product is not combustible and does not support the combustion.</p> <p>Water.</p> <p>May generate toxic gas(Cl_2) by decomposition at high temperature.</p> <p>Move containers from fire area if possible.</p> <p>Wear suitable protective equipment in fire-fighting.</p>
<p>6.Accidental release measures</p> <p>Personal precautions, protective equipment and emergency procedures:</p> <p>Environmental precautions:</p> <p>Methods and material for containment and cleaning up:</p> <p>Prevention of second disaster:</p>	<p>Evacuate people downwind and prohibit entry by putting ropes around the leaked area to keep unnecessary personnel away.</p> <p>Do not let the leaked material discharged into rivers. The leaked material should be treated in accordance with relevant laws and regulations.</p> <p>Recover spills into a vacant container and flush spill area with plenty of water.</p> <p>For more information on exposure controls/personal protection or disposal considerations, check section 8 and 13 of this safety data sheet.</p>
<p>7.Handling and storage</p> <p>Handling:</p> <p>Technological countermeasure (local ventilation/ General Ventilation etc.)</p> <p>Safety precaution</p> <p>Avoid contact</p> <p>Hygiene measure</p>	<p>Wear proper protective device to avoid contact with eyes, skin and clothing.</p> <p>Avoid heat and humidity.</p> <p>Avoid rough handling such as turning over, dropping, impacting or drag the containers.</p> <p>Keep the emptied containers after use at the fixed place.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Work by wearing suitable protective equipment.</p> <p>Check section 10.</p> <p>Avoid inhalation or ingestion.</p> <p>General occupational hygiene measures are required to ensure a safe handling of the substance.</p> <p>(i.e. regular cleaning with suitable cleaning devices).</p> <p>No eating, drinking and smoking at the workplace.</p> <p>Wash hands after use.</p> <p>Remove contaminated clothing and protective equipment before entering eating areas.</p> <p>Shower and change clothes at end of work shift.</p> <p>Do not wear contaminated clothing at home. Do not blow dust off with compressed air.</p>

Storage: Safety storage condition Safety packaging material	Avoid to keep this material in a place with high temperature and high humidity, and direct sunlight. Keep container tightly closed and prohibit strictly contact with water. Store locked up. Establish whether the container conforms test standard on a voluntary basis.
8.EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure control limits Effect of over exposure: ACGIH(2021) Engineering controls: Personal protective equipment: Respiratory protection Hand protection Eye protection Skin and body protection Special precaution statement	0.5mg/m ³ TLV-TWA (Antimony and compounds, as Sb) Use local exhaust in the work area. Protective mask Protective gloves Protective glasses (Goggles type) / Protective face Protective high boots and cloth Avoid environmental discharge.
9.PHYSICAL AND CHEMICAL PROPERTIES	
Appearance: Physical state Figure Color Odor: Melting point: Initial boiling point and boiling range: Flammability: Upper/lower flammability or explosive limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH: kinematic viscosity: Solubility(ies): Partition coefficient n-octanol/water: Vapor pressure: Relative density: Relative vapour density: Particle characteristics: Other:	Solid lump Colorless Odorless 73.4 °C 223 °C Non-flammable. No information. Non-flammable. No information. No information. No information. No information. No information. Soluble in water. Occur hydrolysis. Soluble in organic solvent (acetone etc). No information. No information. No information. No information. No information. No information. No information.
10.STABILITY AND REACTIVITY	
Reactivity: Chemical stability:	Dangerous reaction such as explosive reaction and polymerization could not occur. This product is strong deliquescence.

Possibility of hazardous reactions:	Decomposed by water and generates irritant and toxic white smoke and hydrogen chloride gas, and becomes oxychloride(SbOCl). Antimony oxide and hydrogen chloride gas occurs by heating and combustion.
Conditions to avoid:	It reacts explosively with mixed acid and bromine trifluoride.
Incompatible materials:	It explodes by mixing with metals Na or K.
Hazardous decomposition products:	Avoid heating.
Other:	Metallic Na, Metallic K
	Antimony oxide, Hydrogen chloride gas
	No information.
11.TOXICOLOGICAL INFORMATION	
Acute Toxicity (Oral):	LD ₅₀ rat 525 mg/kg
Acute Toxicity (Dermal):	No information.
Acute Toxicity (Inhalation: dust/mist):	No information.
Acute Toxicity (Inhalation: fume/vapors):	Out of category to solid.
Skin corrosion/irritation:	May cause strong irritation and an ulcer.
Serious eye danger/irritation:	May cause damage of mucous membrane and loss of eyesight.
Respiratory or skin sensitization:	No information.
Germ cell mutagenicity:	Positive reaction in the in vitro chromosomal aberration test of Mouse Bone Marrow. (NITE Initial Risk Assessment Report (2008))
Carcinogenicity:	No information.
Reproductive toxicity:	No information.
STOT single exposure:	May causes damage to organs (Respiratory organs)
STOT repeated exposure:	Causes damage to organs (blood system) through prolonged or repeated exposure
Aspiration hazard:	No information.
Other:	No information.
12.ECOLOGICAL INFORMATION	
Ecotoxicity:	Hazardous to the aquatic environment: Category 1 Hazardous to the aquatic environment-Long-term: Category 1
Persistence and degradability:	No information.
Bioaccumulative potential:	No information.
Mobility in soil:	May cause soil contamination.
Hazardous to the ozone layer:	No information.
Other:	No information.
13.DISPOSAL CONSIDERATIONS	
Waste from residues:	Dispose of contents in accordance with local/regional/national /international regulations(to be specified).
Contaminated container/packing:	Dispose of container in accordance with local/regional/national /international regulations(to be specified).
14.TRANSPOT INFORMATION	
International regulation:	
UN code	1733
Proper shipping name	ANTIMONY TRICHLORIDE
UN Class	8
Packing group	II
Marine pollutant	Applicable.

15.REGULATORY INFORMATION	
Worldwide chemical inventories:	
ENCS(Japan)	1-256
TSCA(USA)	Listed
ECL(Korea)	KE-01889
DSL(Canada)	Listed
PICCS(Philippines)	Listed
AICS(Australia)	Listed
IECSC(China)	Listed
Other regulatory information:	Follow regulation and law of each country or region.
16. OTHER INFORMATION	
Treatment of stated contents:	<p>The contents of this information sheet are based on the data, information available at moments, and may be revised by additional data coming up in future.</p> <p>The precautions mentioned in this sheet are intended for normal use of this material, when use in unusual manner, the proper safety method is required.</p> <p>Read this SDS before use the ingredients.</p> <p>Keep this SDS in your file for your timely reference. The contents of this information sheet are not warranted and the company can accept no liability to any customer or any other person.</p>
References:	<ol style="list-style-type: none"> 1.GHS taiou guideline Edit: Japan Chemical Industry Association Issuance: Japanese Standards Association 2. 【Kaiteidai3ban】 Kinkyujioukyusochishishin Issuance: Japanese Standards Association 3.Shokubanoanzen site: GHS taiou model label ▪ model MSDS Jouhou: Ministry of Health, Labour and Welfare (Japan) 4. SDS of contract manufacturers