

Material Safety Data Sheet

Antimony Trichloride

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of Substance:	Antimony Trichloride SbCl ₃
1.2 Company Identification:	
Company name;	NIHON SEIKO CO., LTD.
Address;	3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO 162-0822 JAPAN
Section;	NIHON SEIKO CO., LTD. SALES SECTION
Phone number;	TEL +81-3-3235-0031 FAX +81-3-5261-7335
Emergency phone number;	NIHON SEIKO CO., LTD. NAKASE REFINERY QUALITY ASSURANCE SECTION TEL +81-79-667-2121
E-mail;	mail@nihonseiko.co.jp
1.3 Recommended use;	Catalyst, Pigments, Mordants

2. HAZARDS IDENTIFICATION

2.1 The most important hazard and effect:	Causes severe skin burns and eye damage Suspected of causing genetic defects Very toxic to aquatic life
2.2 GHS Classification:	
Physical Hazard;	Not classified (Out of category)
Health Hazards	
Acute Toxicity (Oral);	Category 4
Acute Toxicity (Dermal);	Not classified
Acute Toxicity (Inhalation : steam);	Not classified
Skin Corrosion/Irritation;	Category 1C
Serous Eyes Damage/Eye Irritation;	Category 1
Respiratory Sensitization;	Not classified
Skin Sensitization;	Not classified
Germ Cell Mutagenicity;	Category 2
Carcinogenicity;	Not classified
Reproductive Toxicity;	Category 2
Target Organ Toxicity (Single Exposure);	Category 2
Target Organ Toxicity (Repeated Exposure);	Category 2
Aspiration Toxicity;	Not classified
Environmental Hazards	
Acute aquatic toxicity;	Category 1
Chronic aquatic toxicity;	Category 1
2.3 GHS Label:	
Pictogram or Symbols;	
(Based on GHS classification standard assigned by Japanese government as of this moment.)	



Signal words;	Danger
Hazard statements;	Harmful if swallowed Causes sever skin burns and eye damage Cause serious eye damage Suspected of causing genetic defects Suspected of causing fertility or the unborn child May causes damage to organs Very toxic to aquatic life Very toxic to aquatic life with long lasting effects
Precautionary statements Prevention;	Do not handle until all safety precautions have been read and understood. Wear suitable protective clothing, gloves, respiratory and eye/face protection. Do not inhale Do not eat, drink or smoke when using this product.
Response;	FOR SKIN: Wash the affected area with plenty of water or tepid water using a mild soap and get medical advice. FOR INHALATION: Wash nostrils with plenty of water and get medical advice. FOR EYES: Immediately rinse the affected eyes with plenty of clean water for at least 15minutes and get medical advice. FOR INGESTION: Immediately wash out mouth with plenty of water. If possible, try to get the victim to vomit and get medical advice.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Distinction of single substance or mixture:	Single substance
3.2 Chemical Composition:	Antimony Trichloride
3.3 Chemical Formula:	SbCl ₃
3.4 Content:	SbCl ₃ 99.0%
3.5 CAS Number:	10025-91-9
3.6 EINECS Number:	233-047-2
3.7 TSCA:	Registered
3.8 UN Dangerous Goods Number:	1733
3.9 UN Classification:	8 (Corrosives)

4. FIRST-AID MEASURES	
4.1 Skin Contact:	Remove contamination clothing immediately. Wash affected area with soap and copious amount of water. Get medical attention.
4.2 Eye Contact:	Flush eyes with plenty of water. Get medical attention.
4.3 Inhalation:	Wash nostrils with plenty of water. Get medical attention.
4.4 Ingestion:	Rinse the mouth with plenty of water and induce vomiting if possible. Get medical attention.
5. FIRE-FIGHTING MEASURES	
5.1 Suitable Extinguishing Media:	Plenty of water
5.2 Fire Fighting Measures:	This material is not a vacant container and flush spill area with plenty of water. Cool containers on fire by water spray till fire are put out completely. Move containers from fire area if possible.
6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal Precautions:	Prohibit people except for the persons who concern from approaching around spill area in the case of much spill.
6.2 Environmental Precautions:	Do not empty into drains for environmental preservation.
6.3 Methods of Cleaning Up:	Recover spills into a vacant container and flush spill area with plenty water.
7. HANDLING AND STORAGE	
7.1 Precautions during Handling:	Wear proper protective device to avoid contact with eyes, skin and clothing. Avoid rough handling such as tipping over, dropping, impacting, or pulling around containers. Keep the emptied containers after use at the fixed place.
7.2 Storage:	Avoid keeping this material in a place with high temperature and high humidity, and direct sunlight. Keep container tightly closed and prohibit strictly contact with water.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Control concentration:	NA
8.2 Exposure control limits:	
ACGIH [®] ;	0.5mg (Sb)/m ³ TWA
OSHA [®] ;	STANDARD-air 0.5mg (Sb)/m ³ TWA

8.3 Special Protective Measures:

Respiratory;	Use local exhaust in the work area. Wear a gas mask for acid material.
Hands;	Wear gloves.
Eyes;	Wear goggles.
Skin;	Wear overalls and boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:	Off-white lump
9.2 Boiling Point:	223°C
9.3 Melting Point:	73.4°C
9.4 Flash Point:	NA
9.5 Vapor pressure:	13.7mmHg (100.2°C)
9.6 Volatility:	NA
9.7 Combustibility:	NA
9.8 Reaction/Explosion:	NA
9.9 Oxidation	It doesn't oxidize at the normal temperature.
9.10 Solubility in water ^⑦ :	Occur hydrolysis
9.11 Others:	Soluble in many organic solvents such as acetone.

10. STABILITY AND REACTIVITY

10.1 Stability:	This product is strong deliquescence.
10.2 REACTIVITY:	Dangerous reaction such as explosive reaction and polymerization could not occur.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity ^① :	
Human Inhalation;	TCLo 73mg/m ₃
Rat Oral;	LD ₅₀ 525mg/kg
11.2 Skin corrosion/irritation ^⑥ :	May cause strong irritation and an ulcer.
11.3 Serious eye damage/irritation:	May cause damage of mucous membrane and loss of eyesight.
11.4 Respiratory or skin sensitization:	NA
11.5 Mutagenicity ^① :	B.Subtilies DNA repair 10mmol/l
11.6 Carcinogenicity ^④ :	NA

12. ECOLOGICAL INFORMATION^②

Not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal[®] : Do not dump this material into sewers, on the ground or into any body of water. Please contact the specialists. Be sure to mention name and quantity etc of the material.

※ As for waste(or disposal), it is a thing to note the waste restrictions of each region, and to follow.

14. TRANSPORT INFORMATION

14.1 UN Classification 8 (Corrosives)
14.2 UN Dangerous Goods Number: 1733
14.3 Attention in transportation Load safety without giving any damage (such as falling and dropping)during transportation.

※ Follow all regulations in your region.

15. REGULATORY INFORMATION

15.1 This product is listed on TSCA Inventory
15.2 This product is listed on EINECS
15.3 Number on the Korean Existing Chemical List:KE-01889

16. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of NIHON SEIKO CO., LTD. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. NIHON SEIKO CO., LTD. assumes no legal responsibility for use of or reliance upon this information.

16.2 References:

- ① RTECS ; Canadian centre for Occupational Health and Safety (2007)
- ② MSDS Model ; Japan Advanced Information Center of Safety and Health
- ③ Recommendation of Occupational Exposure Limits; Japan Society for Occupational Health (2007)
- ④ AGENTS REVIEWED BY THE IARC MONOGRAPHS
- ⑤ Hazardous material emergency measures indicator Taisei Publishing Co.Ltd., (1982)
- ⑥ Dokubutsu Gekibutsu Toriatsukainotebiki ; JIJI PRESS LTD., (1993)
- ⑦ Antimony Trichloride MSDS; NIHON KAGAKU SANGYO CO. LTD., (2008)

16.3 Revision:

Revision No.	Issue date	Comment
No.00	June. 2009	New issue.