Safety Data Sheet (SDS)

Antimony Metal (Powder)

COMPANY IDENTIFICATION		
Antimony Metal (Powder)		
METAL series (Grade name described in last page)		
NIHON SEIKO CO.,LTD.		
3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO		
162-0822 JAPAN		
SALES DEPT.		
+81-3-3235-0031		
+81-3-3235-0034		
mail@nihonseiko.co.jp NAKASE REFINERY		
QUALITY ASSURANCE SECTION		
+81-79-667-2121		
Industrial materials: Raw materials for semiconductor, Storage battery,		
alloys, etc.		
Carcinogenicity		
Carcinogenicity		
Warning		
Suspected of causing cancer		
[Prevention]		
Obtain special instructions before use.		
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Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 1 of 7

2 COMPOSITION / INFORMATI	ION ON INCREDIENTS			
3.COMPOSITION / INFORMATI Substance/Mixture:	Substance			
General product description: Other name:	Antimony			
	Antimony Metal			
Chemical property				
(Chemical formula etc):	Sb			
CAS number:	7440-36-0			
Component and its content:	It has indicated to the last page for every grade.			
EINECS number:	231-146-5			
Impurity and stabilizing additive				
that contribute to GHS				
Classification:	It has indicated to the last page for every grade.			
4.FIRST AID MEASURES				
	Move affected percepto fresh oir			
Following inhalation:	Move affected person to fresh air. If you feel sick, seek medical attention.			
Fellowing skin sontset				
Following skin contact:	Wash with water and remove clothes if necessary.			
Following eye contact:	Flush eyes thoroughly with water, also under eyelids.			
After ingestion:	Rinse mouth with water.			
Most important summt-up	If you feel sick, seek medical attention.			
Most important symptoms and	A oute on deleved offects are not enticipated for entities are			
effects ,both acute and delayed:	Acute or delayed effects are not anticipated for antimony.			
Protection of person who do first				
aid:	No information.			
Special precaution statement				
for doctor:	No information.			
5.Fire-fighting measure				
Extinguishing media:	Use fire-fighting measures that suit the environment.			
Extinguishing modia.	The product is not combustible and does not support the combustion.			
Unsuitable extinguishing media:	No information.			
Special hazards arising from the				
Substance or mixture:	Antimony triovide dust			
Specific fire-fighting:	Antimony trioxide dust.			
specific file-fighting.	Move the product to safe place promptly when it is a fire in the surrounding. If it is non-transferable, sprinkle the container and the circle with water and			
	cool down.			
Protection for fire-fighter:	Wear suitable protective equipment in fire-fighting.			
Flotection for me-fighter.	wear suitable protective equipment in me-righting.			
6.Accidental release measures				
Personal precautions, protective				
equipment and emergency				
procedures:	Avoid formation of dust.			
*	Ensure adequate ventilation.			
	Keep unprotected persons away.			
	Although the substance has no acute toxicity, it is advised to avoid contact with			
	skin, eyes, and clothing – wear suitable protective equipment.			
	Avoid inhalation of dust.			
Environmental precautions:	It is advised that in the event of an accidental release the product should be			
	prevented from reaching the sewage system or any water course and penetrating			
	the soil.			
	Dispose of spilled material in accordance with the relevant regulations.			
Methods and material for	Dispose of spined material in accordance with the relevant regulations.			
containment and cleaning up:	In any case avoid dust formation.			
containing and cleaning up.	Sweep all spilled material or use an appropriate industrial vacuum cleaner.			
	Collect spilled material in suitable containers or closed plastic bags for recovery			
	or disposal.			
	or uispusal.			

Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 2 of 7

Prevention of second disaster:	For more information on exposure controls/personal protection or disposal considerations, check section 8 and 13 of this safety data sheet.
7.Handling and storage	
Handling:	
Technological countermeasure	Provide a local dust collection system in the places where dust can be generated.
(local ventilation/ General	Provide dust protective mask in the handling position.
Ventilation etc)	
Safety precaution	Do not handle until all safety precautions have been read and
	understood.
	Work by wearing suitable protective equipment.
Avoid contact	Check section 10.
Hygiene measure	Avoid inhalation or ingestion.
	General occupational hygiene measures are required to ensure a safe handling
	of the substance.
	These measures involve good personal and housekeeping practices
	(i.e. regular cleaning with suitable cleaning devices).
	No eating, drinking and smoking at the workplace.
	Wash hands after use.
	Remove contaminated clothing and protective equipment before entering
	eating areas.
	Shower and change clothes at end of work shift. Do not bring contaminated clothing at home.
	Do not blow dust off with compressed air.
Storage:	Do not blow dust on with compressed an.
Safety storage condition	Store in well ventilated dry area with low humidity and sealed state.
Safety packaging material	Establish whether the container conforms test standard on a voluntary
2	basis.
8.EXPOSURE CONTROLS / PER	ASONAL PROTECTION
Exposure control limits	
Effect of over exposure:	
ACGIH(2024)	0.5mg/m ³ TLV-TWA
	(Antimony and compounds, as Sb)
Engineering controls:	Prevent formation of dust where possible. Ensure appropriate
	ventilation/exhaustion at machinery and places where dust can be
	generated. Any deposit of dust which cannot be avoided must be regularly
	removed using preferably appropriate industrial vacuum cleaners or central vacuum systems.
	Waste air is to be released into the atmosphere only when it has passed
	through suitable dust separators.
	Waste water generated during the production process or cleaning operations
	should be collected and should preferably be treated in an on-site waste
	water treatment plant which ensures efficient removal of antimony.
Personal protective equipment:	1 · · · · · · · · · · · · · · · · · · ·
Respiratory protection	Dust protective mask(As appropriate)
Hand protection	Protective gloves
Eye protection	Protective glasses
Skin and body protection	Protective high boots and cloth
Special precaution statement	Avoid environmental discharge.
	BDADEDTIEC
9.PHYSICAL AND CHEMICAL	PKOPEKTIES
Appearance:	Solid
Physical state	Solid
Figure Color	Powder Black
	DIALA

Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 3 of 7

0.1			
Odor:	Odorless		
Melting point:	630 °C		
Initial boiling point and boiling			
range:	1380 °C		
Flammability:	Non-flammable. This substance does not contain any chemical groups		
	that might lead to spontaneous ignition a short time after coming in		
	contact with air at room temperature (circa 20°C). Furthermore,		
	long-term industrial experience in handling shows that the substance		
	does not ignite in contact with air.		
Upper/lower flammability or			
explosive limits:	Non explosive Antimony exhibits no chemical groups indicating		
explosive mints.	Non explosive. Antimony exhibits no chemical groups indicating		
	explosive properties.		
Flash point:	Not applicable as only relevant for liquids or low melting point		
	solids.		
Auto-ignition temperature:	No data.		
Decomposition temperature:	It does not decompose.		
pH:	Not applicable to solids.		
kinematic viscosity:	No information.		
Solubility(ies):	18.2 mg/l		
	(20°C -ISO 6341 medium-loading 2g Sb/l-pH 4.6)		
Partition coefficient n-octanol/water:	No information.		
Vapor pressure:	1.66mmHg (800 °C)		
Relative density:	6.7		
Relative vapour density:	No information.		
Particle characteristics:			
	No information.		
Other:	No information.		
10.STABILITY AND REACTIVIT			
Reactivity:	No information.		
Chemical stability:	Under normal conditions of use and storage, the product is stable.		
Possibility of hazardous reactions:	Reaction with H ⁻ -equivalents releases antimony hydride		
	(stibine, SbH ₃).		
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Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 4 of 7

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11.TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral):	Based on read-across from antimony trioxide, antimony does not
Theate Toxicity (Oral).	require a classification.
	LD_{50} rat > 20,000 mg/kg bw (Antimony trioxide)
	(Fleming, 1938; Gross et al, 1955; Weil et al, 1978)
Acute Toxicity (Dermal):	Based on read-across from antimony trioxide, antimony does not
Acute Toxicity (Definial).	require a classification.
	LD_{50} rabbit > 8,300 mg/kg bw (Gross et al, 1955) (Antimony trioxide)
Acute Toxicity	Based on read-across from antimony trioxide, antimony does not
(Inhalation: dust/mist):	require a classification.
(initiatation: dustrinist).	LC_{50} rat> 5,200 mg/m ³ (Leuschner, 2006) (Antimony trioxide)
Acute Toxicity	LC 50 rat > 5,200 mg/m² (Leusenner, 2000) (Anumony moxide)
(Inhalation: fume/vapors):	Out of category to solids.
Skin corrosion/irritation:	
Skill collosion/initation.	Causes mild skin irritation. Especially can cause dermatitis on contact with
	sweat-damp region over again or prolonged contact. Dermatitis that
	known as "antimony spots" can cause rash after itchiness.
Serious eye danger/irritation:	Antimony trioxide is not irritating to eyes.(Leuschner, 2005)
	Based on read-across from antimony trioxide, antimony does not
.	require a classification.
Respiratory or skin sensitization:	Not skin sensitizing (Chevalier, 2005; Moore, G.E, 1994) /no respiratory
	sensitizer. Based on read-across from antimony trioxide, antimony
	does not require a classification.
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	require a classification.
Germ cell mutagenicity:	Antimony trioxide does not cause systemic mutagenicity in vivo after oral
	administration. Negative in vivo results on chromosome aberrations and
	micronuclei were obtained in two different species via oral application
	– mouse (Elliot et al., 1998) and rat (Whitwell, 2006),
	(Kirkland et al., 2007).
	Based on read-across from antimony trioxide, antimony does not
	require a classification.
Carcinogenicity:	Antimony trioxide is classified as inhalation carcinogen category 2.
	Based on read across from antimony trioxide, antimony powder gets
	the same carcinogen classification, and is classified as inhalation
	carcinogen category 2.
Japan Society for Occupational	
Health	Not classified as carcinogen.
ACGIH	Not classified as carcinogen.
EPA	Not classified as carcinogen.
NTP	Not classified as carcinogen.
EU	Not classified as carcinogen.
IARC	Not classified as carcinogen.
Reproductive toxicity:	Based on the available long-term toxicity studies in rodents
	(Omura et al, 2002) and the relevant information on the
	toxicokinetic behavior in rats, it is concluded that antimony trioxide
	does not present a reproductive toxicity hazard.
	Based on read-across from antimony trioxide, antimony does not
	require a classification.
STOT single exposure:	Antimony trioxide is not classified as STOT, single exposure.
	Based on read-across from antimony trioxide, antimony does not
	require a classification.
STOT repeated exposure:	Antimony trioxide is not classified as STOT, repeated exposure.
	Based on read-across from antimony trioxide, antimony does not
	require a classification.
Aspiration hazard:	Classification not possible, because of a lack of information.
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Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 5 of 7

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Other:	No information.				
12.ECOLOGICAL INFORMATION					
Ecotoxicity:	Classification not possible, because of a lack of information.				
Persistence and degradability:	No information.				
Bioaccumulative potential:	No information.				
Mobility in soil:	No information.				
Hazardous to the ozone layer:	No information.				
Other:	No information.				
13.DISPOSAL CONSIDERATION	S				
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				
Communication Communication Paramage	/international regulations(to be specified).				
14 TD A NODOTE INFORMATION					
14.TRANSPOT INFORMATION International regulation:					
UN code	2871				
	2871				
Proper shipping name	Antimony powder				
UN Class	6.1 				
Packing group					
Marine pollutant	Not applicable.				
15.REGULATORY INFORMATIC	DN				
Worldwide chemical inventories:					
ENCS(Japan)	Not listed				
TSCA(USA)	Listed				
ECL(Korea)	KE-01834				
DSL(Canada)	Listed				
PICCS(Philippines)	Listed				
AICS(Australia)	Listed				
IECSC(China)	Listed				
NECI(Taiwan)	Listed				
Other regulatory information:	Follow regulation and low of each country or region.				
	Tonow regulation and fow of each country of region.				
16. OTHER INFORMATION					
Treatment of stated contents:	The contents of this information sheet are based on the data,				
	information available at moments, and may be revised by additional dat				
	a coming up in future.				
	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.				
	Read this SDS before use the ingredients.				
Keep this SDS in your file for your timely reference. The conter of this information sheet are not warranted and the company can					
			accept no liability to any customer or any other person.		
References:	1.GHS taiou guideline				
	Edit: Japan Chemical Industry Association				
	Issuance: Japanese Standards Association				
	2.Antimony SDS form of International Antimony Association (i2a)				
	3. [Kaiteidai3ban] Kinkyujioukyusochishishin				
	Issuance: Japanese Standards Association				
	4.National Institute of Technology and Evaluation (NITE)_				
	Chemical Risk Information Platform (CHRIP)_Antimony				
	Chemical Risk mornauon Flatform (Criticity_Allumony				

Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 6 of 7

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Jouhou: Antimony Ministry of Health, Labour and Welfare (Japan) 9.Muki kagaku zensho.IV-4 MARUZEN CO., LTD. 10.Sangyouigaku vol.33 1991	Jouhou: Antimony Ministry of Health, Labour and Welfare (Japan) 9.Muki kagaku zensho.IV-4 MARUZEN CO., LTD.

Each Antimony Metal grades of purity and impurity content.

	METAL-P	METAL-H 3N
		(Only powder)
Sb(%)	99.8	99.9
As(%)	0.04	0.02
Pb(%)	0.06	0.04

Antimony Metal (Powder) Issue No: Q0784-02 Issue Date: June 19, 2024 Page 7 of 7