Safety Data Sheet (SDS)

Preparation of Antimony Trioxide (STOX-CA)

1.CHEMICAL PRODUCT AND C	OMPANY IDENTIFICATION	
Substance name:	Preparation of Antimony Trioxide	
Product name:	STOX-CA	
Company name:		
Address	NIHON SEIKO CO., LTD. 3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO	
Address	162-0822 JAPAN	IOKIO
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: Catalysts, etc.	
2.HAZARDS IDENTIFICATION		
GHS classification :		
Health hazards	Carcinogenicity	:Category 2
	Specific target organ toxicity	
	(STOT, single exposure)	:Category 2
	(BIOI, Single exposure)	(Central nervous system,
		kidneys, heart, respiratory)
	Specific target organ toxicity	Runeys, neart, respiratory)
	(STOT, repeated exposure)	:Category 2
	(STOT, repeated exposure)	(Central nervous system,
		heart, respiratory)
GHS label:		neart, respiratory)
Hazard pictogram	A	
Hazard pictogram		
	N. N	
Signal word	Warning	
Hazard statements	Suspected of causing cancer	
Hazaru statements	May cause damage to organs	
	(Central nervous system, kidneys, heart, res	
	May cause damage to organs through pro-	onged or repeat
	(Central nervous system, heart, respiratory)	
Precautionary statements	[Prevention]	
	Obtain special instructions before use.	
	Do not handle until all safety precautions	have been read and
	understood.	
	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust. Wash hand, etc. thoroughly after handling.	
	Do not eat, drink or smoke when using t	his product.

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	[Response]
	If exposed or concerned:
	Call a doctor.
	Get medical advice/attention.
	Get medical advice/attention if you feel unwell.
	[Storage]
	Store locked up.
	-
	[Disposal]
	Dispose of contents/container in accordance with local/regional/national/
	international regulations(to be specified).
Other hazard not applicable to	
GHS classification hazard:	No information.
The summary of important signs	
and assumed emergency:	No information.
3.COMPOSITION / INFORMATI	ON ON INGREDIENTS
Substance/Mixture:	Mixture
General product description:	STOX-CA
Other name:	
Chemical property	Antineers Trinside Sh O
(Chemical formula etc.):	Antimony Trioxide: Sb_2O_3
~~~	Ethylene Glycol: HOCH ₂ CH ₂ OH
CAS number:	Antimony Trioxide: 1309-64-4
	Ethylene Glycol: 107-21-1
Component and its content:	Antimony Trioxide: 96.8%
	Ethylene Glycol: 3.0%
EINECS number:	Antimony Trioxide: 215-175-0
	Ethylene Glycol: 203-473-3
Impurity and stabilizing additive	
that contribute to GHS	
Classification:	As: 0.03%, Pb: 0.003%
Classification.	AS. 0.05 //, 10. 0.005 //
4.FIRST AID MEASURES	
Following inhalation:	Move affected person to fresh air.
Following initiation.	
Dellessing dein sont	Seek medical attention.
Following skin contact:	Wash with water and remove clothes if necessary.
Following eye contact:	Flush eyes thoroughly with water, also under eyelids.
	If eye irritation persists, Seek medical attention.
After ingestion:	Rinse mouth with water.
	Seek medical attention.
Most important symptoms and	
effects ,both acute and delayed:	No information.
Protection of person who do first	
aid:	No information.
Special precaution statement	
for doctor:	No information
	No information.
5.Fire-fighting measure	
Extinguishing media:	Use fire fighting measures that suit the environment
Exunguishing media.	Use fire-fighting measures that suit the environment.
TT '4 11 4' ' 1' 1'	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 trioxide dust.
Specific fire-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.

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Protection for fire-fighter:	Wear suitable protective equipment in fire-fighting.
6.Accidental release measures	
Personal precautions, protective	
equipment and emergency	
procedures:	Avoid formation of dust.
1	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 presentions	
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	
containment and cleaning up:	In any case avoid dust formation.
	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.
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. Provide dust protective mask in the handling position.
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 wear contaminated clothing at home.
	-
Storage	Do not blow dust off with compressed air.
Storage:	Store in wall wantilated day area with law knowline and and the
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
Surery prevaging material	voluntary basis.

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#### 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

8.EXPOSURE CONTROLS / PERS	ONAL PROTECTION
Exposure control limits	
Effect of over exposure:	
ACGIH(2024)	(1)0.02mg/m3 TLV-TWA
	(Antimony Trioxide)
	②STEL: 50 ppm vapor fraction
	STEL: 10 mg/m3 inhalable
	particulate matter,
	aerosol only
	TWA: 25 ppm vapor fraction
	(Ethylene glycol)
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.
Personal protective equipment:	
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.
9.PHYSICAL AND CHEMICAL I	PROPERTIES
Appearance:	
Physical state	Solid
Figure	Powder
Color	White
Odor:	Odorless
Melting point:	No information.
Initial boiling point and boiling	
range:	No information.
Flammability:	Non-flammable.
Upper/lower flammability or	
explosive limits:	Non-explosive.
Flash point:	No information.
Auto-ignition temperature:	No information.
Decomposition temperature:	No information.
pH:	No information.
kinematic viscosity:	No information.
Solubility(ies):	No information.
Partition coefficient n-octanol/water:	No information.
Vapor pressure:	No information.
Relative density:	No information.
Relative vapour density:	No information.
Particle characteristics:	No information.
Other:	No information.
10 CTADII ITY AND DEA CONSTR	V
<b>10.STABILITY AND REACTIVIT</b> Reactivity:	Y No information.
Chemical stability:	Under normal conditions of use and storage, the product is stable.
chemical stability.	onder normal conditions of use and storage, the product is stable.

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## **IHON SEIKO CO., LTD.**

Possibility of hazardous reactions:	Reaction with H ⁻ -equivalents releas	es antimony hydride
~	(stibine, SbH ₃ ).	
Conditions to avoid:	Avoid dust formation.	
Incompatible materials:	Reaction with H ⁻ -equivalents releases antimony hydride	
	(stibine, SbH ₃ ).	
	Strong acids/bases. Reducing agent	S.
	See section 7.	
Hazardous decomposition products:	No information.	
Other:	No information.	
11.TOXICOLOGICAL INFORMA	ΓΙΟΝ	
	Antimony Trioxide	Ethylene Glycol
Acute Toxicity (Oral):	Not Classified.	Not Classified.
	$LD_{50}$ rat > 20,000 mg/kg bw	LD ₅₀ rat 4,000-102,000 mg/kg
Acute Toxicity (Dermal):	Not Classified.	Not Classified.
<u>-</u> · · · · · · ·	$LD_{50}$ rabbit > 8,300 mg/kg bw	LD ₅₀ rat 10,600 mg/kg
Acute Toxicity		
(Inhalation: dust/mist):	Not Classified.	Out of category(dust)
	LC ₅₀ rat> 5,200 mg/m ³	Classification not possible(mist)
Acute Toxicity		
(Inhalation: fume/vapors):	Out of category to solids.	Out of category(fume)
		Classification not possible(vapors)
Skin corrosion/irritation:	Not Classified.	Not Classified.
	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:	Not Classified.	Category 2B
Respiratory or skin sensitization:	Not Classified.	Not Classified(Skin sensitization)
- · ·		Classification not possible
		(Respiratory)
Germ cell mutagenicity:	Not Classified.	Not Classified.
Carcinogenicity:	Category 2	Not Classified.
	Japan Society for Occupational	ACGIH : A4
	Health: 2B	
	ACGIH: Category A2	
	EPA: Not classified.	
	NTP: Reasonably anticipated to	
	be a human carcinogen	
	EU: Category 2	

IARC: Group 2A Not Classified.

Not Classified.

Not Classified.

Classification not possible.

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Reproductive toxicity: STOT single exposure:

STOT repeated exposure:

Aspiration hazard:

Other:

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Not Classified.

(Central nervous system, kidneys, heart, respiratory)

(Central nervous system, heart, respiratory)

Classification not possible.

Category 1

Category 1

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12.ECOLOGICAL INFORMATIO			
Ecotoxicity:	No information as mixture.		
Persistence and degradability:	No information as mixture.		
Bioaccumulative potential:	No information as mixture.		
Mobility in soil:	No information as mixture.		
Hazardous to the ozone layer:	No information.		
Other:	No information.		
12 DISDOCAL CONSIDERATION	9		
13.DISPOSAL CONSIDERATION	-		
Waste from residues:	Dispose of contents in accordance		
	/international regulations(to be specified).		
Contaminated container/packing:	Dispose of container in accordance with local/regional/national		
	/international regulations(to be spec	ined).	
14.TRANSPOT INFORMATION			
International regulation:			
UN code	Not applicable.*		
Proper shipping name	Not applicable.		
UN Class	Not applicable.		
Packing group			
Marine pollutant		Not applicable.	
	Not applicable. n SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging		
	les and oxides, which contain not more t	nan 0.5% of arsenic calculated on the	
total weight, are not subject to these reg 15.REGULATORY INFORMATIO			
Worldwide chemical inventories:	Antimony Trioxide	Ethylene Glycol	
ENCS(Japan)	1-543	2-230	
TSCA(USA)	Listed	Listed	
ECL(Korea)	KE-09846	KE-13169	
DSL(Canada)	Listed	Listed	
PICCS(Philippines)	Listed	Listed	
AICS(Australia)	Listed	Listed	
IECSC(China)	Listed	Listed	
NECI(Taiwan)	Listed	Listed	
Other regulatory information:		1	
Other regulatory information:	Follow regulation and low of each cou	untry or region.	
16. OTHER INFORMATION			
Treatment of stated contents:	The contents of this information sh	neet are based on the data,	
	information available at moments,	and may be revised by additional dat	
	a coming up in future.	5	
		sheet are intended for normal use of	
		manner, the proper safety method is	
	required.		
	Read this SDS before use the ingr	edients	
	Keep this SDS in your file for yo		
	of this information sheet are not w	-	
		1 1	
Deferences	accept no liability to any customer or any other person.		
References:	Edit: Japan Chemical Industry Association Issuance: Japanese Standards Association		
	-	International Antimony Association	
	(i2a)		
3. [Kaiteidai3ban] Kinkyujioukyusochishishin Issuance: Japanese Standards Association			
	4.OECD-SIAM(October 14-16. 201	2)SIDS Initial Assessment Profile	

5.National Institute of Technology and Evaluation (NITE)_
Chemical Risk Information Platform (CHRIP)
6.TRANSPORT OF DANGEROUS GOODS Model Regulations 17th
vol I en United Nation
7.Shokubanoanzen site
Ministry of Health, Labour and Welfare (Japan)
8.Sangyouigaku vol.33 1991

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