Safety Data Sheet (SDS)

Preparation of Antimony Trioxide (STOX-CFA)

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Substance name: Preparation of Antimony Trioxide (STOX-CFA)

Company name: NIHON SEIKO CO., LTD.

Address 3-2 SHIMOMIYABI-CHO SHINJUKU-KU TOKYO

162-0822 JAPAN

Charge section
Phone number
Fax number
E-mail address
Emergency telephone number

SALES DEPT.
+81-3-3235-0031
+81-3-3235-0034
mail@nihonseiko.co.jp
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

(Central nervous system, kidneys, heart, respiratory)

Specific target organ toxicity

(STOT, repeated exposure) :Category 2

(Central nervous system, heart, respiratory)

GHS label:

Hazard pictogram



Signal word Warning

Hazard statements Suspected of causing cancer

May cause damage to organs

(Central nervous system, kidneys, heart, respiratory) May cause damage to organs through prolonged 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 this 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/ int ernational regulations(to be specified).

Other hazard not applicable to GHS classification hazard:

The summary of important signs

and assumed emergency:

No information.

No information.

3.COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: General product description:

Other name: Chemical property

(Chemical formula etc.):

CAS number:

Component and its content:

EINECS number:

Impurity and stabilizing additive

that contribute to GHS

Classification:

Mixture

STOX-CFA

Antimony Trioxide: Sb₂O₃

Ethylene Glycol: HOCH2CH2OH Antimony Trioxide: 1309-64-4

Ethylene Glycol: 107-21-1 Antimony Trioxide: 96.8%

Ethylene Glycol: 3.0% Antimony Trioxide: 215-175-0 Ethylene Glycol: 203-473-3

As: 0.01%, Pb: 0.006%

4.FIRST AID MEASURES

Following inhalation: Move affected person to fresh air.

Seek medical attention.

Wash with water and remove clothes if necessary. Following skin contact: 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:

Protection of person who do first

Special precaution statement

for doctor:

No information.

No information.

No information.

5.Fire-fighting measure

Extinguishing media: Use fire-fighting measures that suit the environment.

The product is not combustible and does not support the combustion.

No information. Unsuitable extinguishing media:

Special hazards arising from the

Substance or mixture: Specific fire-fighting:

Antimony trioxide dust.

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. 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 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. (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. Avoid inhalation or ingestion. Hygiene measure 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 Shower and change clothes at end of work shift. Do not wear contaminated clothing at home. Do not blow dust off with compressed air. Storage:

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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 basis.

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8.EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Exposure control limits

Effect of over exposure:

ACGIH(2020) 0.5mg/m³ TLV-TWA

(Antimony and compounds, as Sb)

100mg/m³ TWA-STEL

(Ethylene Glycol, The threshold limit value as the aerosol)

Personal protective equipment:

Hand protection Protective gloves Eye protection Protective glasses

Skin and body protection

Special precaution statement

Protective high boots and cloth
Avoid environmental discharge.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state Solid
Figure Powder
Color White
Odor: Odorless

Odor threshold: Not applicable as odorless.

pH: Melting point:

No information.

No information.

Initial boiling point and boiling

range: No information.
Flash point: No information.
Evaporation rate: No information.

Flammability (solid, gas): 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).

Upper/lower flammability or

explosive limits: Non explosive. Vapor pressure: No information. Vapor density: No information. Relative density: No information. Solubility(ies): No information. Partition coefficient n-octanol/water: No information. Auto-ignition temperature: No information. Decomposition temperature: No information.

Viscosity: Not applicable to solids.

Other: No information.

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10.STABILITY AND REACTIVITY

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, SbH₃).

Conditions to avoid: Avoid dust formation.

Incompatible materials: Reaction with H-equivalents releases antimony hydride

(stibine, SbH₃).

Strong acids/bases. Reducing agents.

See section 7.

Hazardous decomposition products:

No information. No information. Other:

11.TOXICOLOGICAL	INFORMATION
11.1OMCOLOGICAL	TIME OF MALE TO THE

II.IUXICULUGICAL INFURMA		
	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.
	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 2B	
Reproductive toxicity:	Not Classified.	Not Classified.
STOT single exposure:	Not Classified.	Category 1
		(Central nervous system,
		kidneys, heart, respiratory)
STOT repeated exposure:	Not Classified.	Category 1
		(Central nervous system,
		heart, respiratory)
Aspiration hazard:	Classification not possible.	Classification not possible.

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12.ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

No information as mixture.

No information as mixture.

No information as mixture.

No information as mixture.

Hazardous to the ozone layer:

Other:

No information.

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
Proper shipping name
UN Class
Packing group
Marine pollutant

Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

*UN regulation: The special provision SP45 is applicable to the UN number 1549 (Hazard class6.1 and packaging group III). It means that antimony sulfides and oxides, which contain not more than 0.5% of arsenic calculated on the total weight, are not subject to these regulations.

15.REGULATORY INFORMATION

Antimony Trioxide Ethylene Glycol Worldwide chemical inventories: 2-230 ENCS(Japan) 1-543 Listed Listed TSCA(USA) ECL(Korea) KE-09846 KE-13169 Listed DSL(Canada) Listed PICCS(Philippines) Listed Listed AICS(Australia) Listed Listed IECSC(China) Listed Listed NECI(Taiwan) Listed Listed

Other regulatory information: Follow regulation and low of each country or 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 data

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 contents 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 Trioxide SDS form of International Antimony Association

i2a)

3. [Kaiteidai3ban] Kinkyujioukyusochishishin Issuance: Japanese Standards Association

4.OECD-SIAM(October 14-16. 2008)SIDS Initial Assessment Profile

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

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