SAFETY DATA SHEET

Date of issue Feb 16, 2018
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name SOLDER CREAM ZERO COSMO NP303-COSMO-LH-T5

Company Identification

Name of Supplier NIHON GENMA MFG. CO., LTD.

Address of Supplier 2-16-4, Mitsuyakita, Yodogawa-Ku, Osaka, Japan

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SDS No. SDS- E180206

Recommended and restrictions of Soldering process

use of the products

2. HAZARD IDENTIFICATION

GHS Classification

Since the content of the content		<health hazards=""></health>		
Explosives	Not Applicable	Acute toxicity, oral	Not Classified	
Flammable gases	Not Applicable	Acute toxicity, dermal	Not Classified	
Flammable aerosols	Not Applicable	Acute toxicity (inhalation:gas)	Not Classified	
Oxidizing gases	Not Applicable	Acute toxicity (inhalation:vapor)	Not Classified	
Gases under pressure	Not Applicable	Acute toxicity (inhalation:dust and mist)	Not Classified	
Flammable liquids	Not Applicable	Skin corrosion/irritation	Not Classified	
Flammable solids	Classification Not Possible	Eye damage/irritation	Category 1	
Self-reactive substances and liquids	Not Applicable	Respiratory sensitization	Not Classified	
Pyrophoric liquids	Not Applicable	Skin sensitization	Category 1	
Pyrophoric solids	Not Applicable	Germ cell mutagenicity	Not Classified	
Self-heating substances and mixture	es Not Applicable	Carcinogenicity	Not Classified	
Substances and mixtures which, in contact with water, emit flammable	Classification e Not Possible	Reproductive toxicity	Not Classified	
Oxidizing liquids	Not Applicable	Specific target organ toxicity (single exposure)	Category 2	
Oxidizing solids	Not Applicable	Specific target organ toxicity (repeated exposure)	Category 1	
Organic peroxides	Not Applicable	Aspiration hazard	Classification Not Possible	
Substance and mixtures corrosive to metals	Classification Not Possible	<environmental haz<="" td=""><td>ards></td></environmental>	ards>	
		Hazardous to the aquatic environment-Acute hazard	Not Classified	
		Hazardous to the aquatic environment-Chronic hazard	Not Classified	

Label Elements Symbols/ Pictograms



Signal Word Danger

Hazardous Information

H317 May cause an allergic skin reaction

H318 Causes serious eye damage H371 May cause damage to organs

H372 Cause damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure

Instructions

Precaution Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270)

Contaminated work clothing should not be allowed out of the workplace. (P272) Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response IF ON SKIN: Wash with plenty of soap and water. (P302+P352)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. (P305+P351+P338)

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. (P309+P311)

Immediately call a POISON CENTER or doctor/physician. (P310)

Get medical advice/attention if you feel unwell. (P314)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

Wash contaminated clothing before reuse. (P363)

Storage Store in a container tightly stooped. (P405-1)

Disposal Dispose of contents/container to in accordance with local/regional/national/international

regulations. (P501)

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture
Chemical name or General name Solder paste

Composition

Material name	Chemical formula	CAS No	Official file number	Content wt%
Tin	Sn	7440-31-5	_	85.4
Silver	Ag	7440-22-4	_	2.7
Copper	Cu	7440-50-8	_	0.44
Modified rosin	_	Trade secret	7-946	4.2
Solvent (glycol type)	_	Trade secret	7-97	3.5
Solvent (glycol type)	_	Trade secret	2-3870	8.0
Organic acid	_	Trade secret	_	1.2
Organic acid	_	Trade secret	_	0.9
Additive	_	Trade secret	_	0.86

4. FIRST-AID MEASURES

Eye contact Flush eye well with plenty running water for 15 minutes, including under eyelids.

See physician.

Skin contact Wash with plenty of soap and water.

Inhalation Remove to fresh air and call physician.

Ingestion Spit out promptly and receive treatment by doctor in case necessary afterwards.

5. FIRE-FIGHTING MEASURES

Extinguishant Dry chemical, air foam, carbon dioxide.

Specific fire fighting Fire fighting perform from the windward and remove inflammables. Prohibited extinguisher Water For melted metal to pour water is strictly prohibited.

Protection for fire Stand in the windward, wear tools for protection for breathing and do not inhale

fighters outbreak gas.

6. ACCIDENTAL RELEASE MEASURES

Attention for the human The collection work should be carried out from windward with protection glasses,

gloves, mask. hody

Attention for the environment

Pay attention not to flow out into the public waters.

Removal method Scoop up excess material and wash affected area with soap and water.

Handling of repossession; refer to "13. Attention of disposal".

In case of small amount, wipe off with organic solvent.

7. HANDLING AND STORAGE

Handling Do not touch this product with bare hand. If this product is in contact with skin,

wash the hand with alcohol or water with soap.

Wear protection glass and mask in operation.

Ventilate the room sufficiently in operation. Take care not to inhale the vapor. Instructions

Storage Keep in the cool and dark space. (below 10°C)

> Keep Away from heat source, ignition, strong oxidizers, Condition to avoid

> > alkaline and acid.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment In operation, perform local exhaust

Unit mg/m3 Exposure limit

	OSHA PEL	ACGIH TWA	
	2009	2009	
Tin	2	2	
Silver	0.01	0.1	
Copper	0.1	0.2	

Personal protective equipment

Respiratory apparatus Protective mask Hand Protective gloves Eye Protective glass

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Gray paste with metallic luster and glycol odor

Percent Volatile Melting Point 217-219 °C 1.33Pa(0.01mmHg)/20°C

(METAL)

(main solvent) Combustibility Include inflammables Specific gravity 4.3 Solubility to water Almost No Ignition point 126°C

(main solvent) Flash point 305°C

(main solvent)

Flash (spontaneous No information Oxidization No information combustion, reaction with

Boiling point No informatioin water)

(main solvent)

10. STABILITY AND REACTIVITY

Stability This product considered stable under normal condition.

Reactivity Metal ingredient may react with strong acid and oxidizer, alkaline and acids. Condition to avoid Keep Away from heat source, ignition, strong oxidizers, alkaline and acid.

Hazardous In case of combustion, carbon oxide, carbon dioxide are released.

decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity No information Skin corrosion/irritation No information

Eye damage/irritation (Solvent/glycol type) May cause severe eye stimulation with the cornea injury

Respiratory sensitization No information

Skin sensitization (Ag) There is a of allergic reaction by contact to accessories containing silver.

Germ cell mutagenicity No information Carcinogenicity No information Reproductive toxicity No information

Specific target organ (Ag) The obstacle of the respiratory system

toxicity

(single exposure)

Specific target organ (Sn) fear of the obstacle to the lungs

toxicity

(Ag) Damage of Eyes and respiratory organs with long term or the repetition (repeated exposure)

exposure (Category 1)

Aspiration hazard No information Hazardous to the aquatic No information environment-Acute hazard

Hazardous to the aquatic environment-Chronic

hazard

No information

12. ECOLOGICAL INFORMATION

Mobility No information Biodegradation No information No information Bioaccumulation Fish Toxicity No information

13. DISPOSAL CONSIDERATIONS

In accordance with state and local regulations

Metal ingredients are recyclable.

14. TRANSPORT INFORMATION

UN No. Not Applicable Marine pollutant Not Applicable Specific transport measures and condition

To avoid sunshine, high temperature and humidity, keep away from heat.

Check before transport load not breakage of container, turnover and fall during transport.

15. Regulatory Information

Industrial safety and Enforcement order Article 18-1, 2 322 Tin and its compounds

Enforcement order Article 18-1, 2 137 Silver and its water soluble compounds health law

Enforcement order Article 18-1, 2 379 Copper and its compounds

PRTR Law Class I Designated Chemical Substance Cabinet Order No 82 Silver and its

water soluble compounds 2.7%

Other Regulations Sewerage Act Enforcement Act Article 9-4 Copper and its compounds

16. OTHER INFORMATION

This SDS is created based on the information we can get at issued date. We expect accuracy. but it is not a thing of guarantee. Please perform reasonable attention for individual use and safe handling.

Because the contents of this information correspond to a normal use / condition, in case of not normal use/condition, we will assume that the responsibility is of the user.