SAFETY DATA SHEET

Date of issue Apr 11, 2011 Date of revison Jun 28, 2014

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name SOLDER CREAM ZERO NP303-COSMO-ZQ-C

Company Identification

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

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

Department in charge Person in charge Junichi Takenaka
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SDS No. SDS- E110404

Recommended and restrictions of Soldering process

use of the products

2. HAZARD IDENTIFICATION

GHS Classification

<physical hazards=""></physical>		<health hazards=""></health>	<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]	Classification Not Possible		
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	Classification Not Possible		
Pyrophoric liquids	Not Applicable	Skin seneitization	Category 1		
Pyrophoric solids	Not Applicable	Germ cell mutagenicity	Not Classified		
Self-heating substances and mixtures	Not Applicable	Carcinogenicity	Not Classified		
Substances and mixtures which, in contact with water, emit flammable gases	Classification 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 hazar<="" td=""><td colspan="2"><environmental hazards=""></environmental></td></environmental>	<environmental hazards=""></environmental>		
		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

Disposal

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

Avoid breathing dust/fume/gas/mist/vapours/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)

Reponse •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 hermetically sealed. (P405-1)

•Dispose of contents/container to in accordance with local/regional/national/international regulations. (P501)

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Single Substance or Mixture
Chemical name
Composition

Mixture
Solder paste

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	2.6
Modified rosin	_	Trade secret	7-937	1.8
Solvent (glycol type)	_	Trade secret	7-97	3.6
Additive	_	_	_	1
Additive	_	-	_	2.46

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 neccessary afterwards.

5. FIRE-FIGHTING MEASURES

Extinguishant Dry chemical, airfoam, carbon dioxide.

Specific fire fighting Fire fighting perform from the windward and remove in flammables.

method

body

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 sholud be carried out from windward with protection glasses,

gloves, mask.

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. Ware protection glass and mask in operation.

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

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

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

alkaline and acid.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment local exhaust in operation Exposure limit Unit mg/m³

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

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

Melting Point(METAL) 217-221 °C Percent Volatile 0.01mmHg/25°C

Combustibility Include inflammables Specific gravity 4.3

Solubility to water No Ignition point 141°C(D.B.)

Flash point No information (main solvent)

Flash (spontaneous combustion, reaction with water)

No
Oxidization
Oxidization
No information
No information

10. STABILITY AND REACTIVITY

Stability This product considered stable under normal condition.

Reactivity 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 By combustion carbon oxide, carbon dioxide and hume are generated.

decomposition products

11. TOXICOLOGICAL INFORMATION

Acute toxicity No information Skin corrosion/irritation No information Eye damage/irritation No information Respiratory sensitizatic No information

(Ag) There is an allergic reaction by contact. Skin seneitization

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

Specific target organ

(Ag) The obstacle of the respiratory system

toxicity(single

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

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

exposure) exposure No information Aspiration hazard

Hazardous to the aquatic

No information environment-Acute hazard

Hazardous to the aquatic

No information

environment-Chronic

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

In accordance with state and local regulations

Metal ingredints are recyclable.

14. TRANSPORT INFORMATION

UN No. Not Applicable Marine polutant 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 18-2 322 Tin and its compounds

health law

•Enforcement order Article 18-2 137 Silver and its water soluble compounds

•Enforcement order Article 18-2 379 Copper and its compounds

•Enforcement order Article 18-2 632 Rosin

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 CSDS 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.