SAFETY DATA SHEET

Date of issue Dec 08, 2015
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name CLEAN SOLDER SOLDER CREAM PW231-ST355-GQ-CC-1

Company Identification

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

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

Department in charge
Person in charge
Emergency Telephone
Fax No.

Mail address

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Recommended and restrictions of Soldering process

use of the products

2. HAZARD IDENTIFICATION

GHS Classification

<pre><physical hazards=""></physical></pre>		<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	Not Classified	
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	Classification Not Possible	Reproductive toxicity	Not Classified	
Oxidizing liquids	Not Applicable	Specific target organ toxicity (single exposure)	Not Classified	
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

H318 Causes serious eye damage

H372 Cause damage to organs through prolonged or repeated exposure

Instructions

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

Wash hands thoroughly after handling. (P264)

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

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

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

present and easy to do. Continue rinsing. (P305+P351+P338) Immediately call a POISON CENTER or doctor/physician. (P310)

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

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	_	84.5
Bismuth	Bi	7440-69-9	-	2.7
Silver	Ag	7440-22-4	-	0.89
Copper	Cu	7440-50-8	-	0.44
Modified rosin	_	Trade secret	7-946	3.8
Modified rosin	_	Trade secret	7-937	1.8
Solvent (glycol type)	_	Trade secret	7-97	3.8
Additive	_	Trade secret	-	2.07

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,

body gloves, mask.

Attention for the Pay attention not to flow out into the public waters.

environment

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.

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

Exposure limit Unit mg/m3

	OSHA PEL	ACGIH TWA
	2009	2009
Tin	2	2
Bismuth	-	_
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

Melting Point(METAL) 207–223 °C Percent Volatile 1.33Pa(0.01mmHg)/20°C

(main solvent)

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

Flash point 305°C (main solvent)

(main solvent)

water) Boiling point No informatiojn

(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 By combustion copper fume is generated.

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

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 No information Germ cell mutagenicity No information Carcinogenicity No information Reproductive toxicity Specific target organ No information

toxicity

(single exposure)

Specific target organ

(Sn) fear of the obstacle to the lungs

toxicity

(repeated exposure)

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

environment-Chronic hazard

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 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 18-2 322 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

PRTR Law Not Applicable

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.