

SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name SOLDER ACE HQ5-RMA RH60

Company Identification

Name of Supplier NIHON GENMA MFG. CO., LTD.
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SDS No. SDS- E021259
Recommended and restrictions of use of the products Soldering process

2. HAZARD IDENTIFICATION

GHS Classification

	<Physical Hazards>		<Health Hazards>	
Explosives	Not Applicable	Acute toxicity, oral	Not Classified	
Flammable gases	Not Applicable	Acute toxicity, dermal	Not Classified	
Flammable aerosols	Not Applicable	Acute toxicity xx[inhalation:gas]	Not Classified	
Oxidizing gases	Not Applicable	Acute toxicity xx[inhalation:vapor]	Not Classified	
Gases under pressure	Not Applicable	Acute toxicity xx[inhalation:dust and mist]	Not Classified	
Flammable liquids	Not Applicable	Skin corrosion/irritation	Not Classified	
Flammable solids	Classification Not Possible	Eye damage/irritation	Not Classified	
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	Category 2	
Self-heating substances and mixtures	Not Applicable	Carcinogenicity	Category 2	
Substances and mixtures which, in contact with water, emit flammable	Classification Not Possible	Reproductive toxicity	Category 1	
Oxidizing liquids	Not Applicable	Specific target organ toxicity xx(single exposure)	Not Classified	
Oxidizing solids	Not Applicable	Specific target organ toxicity xx(repeated exposure)	Category 1	
Organic peroxides	Not Applicable	Aspiration hazard	Classification Not Possible	
Substance and mixtures corrosive to metals	Classification Not Possible	<Environmental Hazards>		
		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

- H340 May cause genetic defects
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child
- H372 Cause damage to organs through prolonged or repeated exposure

Instructions

- Precaution** Obtain special instructions before use. (P201)
Do not handle until all safety precautions have been read and understood.(P202)
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)
Use personal protective equipment as required. (P281)
- Response** IF exposed or concerned: Get medical advice/attention. (P308+P313)
Get medical advice/attention if you feel unwell. (P314)
- Storage** Store in a container. (P405-2)
- 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 Flux cored solder wire

Composition

Material name	Chemical formula	CAS No	Official file number	Content wt%
Tin	Sn	7440-31-5	-	58
Lead	Pb	7439-92-1	-	38.7
Rosin	-	-	-	3.3

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 fighters** Stand in the windward, wear tools for protection for breathing and do not inhale outbreak gas.

6. ACCIDENTAL RELEASE MEASURES

- Attention for the human body** The collection work should 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.
	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.
Condition to avoid	Keep Away from heat source, ignition, strong oxidizers, alkaline and acid.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment	In operation, perform local exhaust		
Exposure limit	Unit mg/m3		
	OSHA PEL	ACGIH TWA	
	2009	2009	
Tin	2	2	
Lead	0.05	0.05	
Rosin	-	-	

Personal protective equipment

Respiratory apparatus	Protective mask
Hand	Protective gloves
Eye	Protective glass

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray metal wire		
Melting Point(METAL)	183-189 °C	Percent Volatile	No
Combustibility	Include inflammables	Specific gravity	6.8
Solubility to water	No	Ignition point	No
Flash point	No	(main solvent)	
Flash (spontaneous combustion, reaction with water)	No	Oxidization	No information
		Boiling point	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	In case of combustion, toxic Hume and gas are released.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No information
Skin corrosion/irritation	No information
Eye damage/irritation	No information
Respiratory sensitization	No information
Skin sensitization	No information
Germ cell mutagenicity	(Pb) There is a description that lead itself provides chromosome aberration / nebenkern induction.
Carcinogenicity	(Pb) May cause of the carcinogenesis
Reproductive toxicity	(Pb) Fear of the bad influence to fecundity or a fetus
Specific target organ toxicity (single exposure)	No information
Specific target organ toxicity (repeated exposure)	(Sn) fear of the obstacle to the lungs (Pb) Cardiovascular system, central nervous system, hematopoietic system, immune system, kidneys, lung, peripheral nervous system
Aspiration hazard	No information
Hazardous to the aquatic environment-Acute hazard	No information
Hazardous to the aquatic environment-Chronic hazard	No information

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 health law Enforcement order Article 18-2 322 Tin and its compounds
Enforcement order Article 18-2 411 Lead and its inorganic compounds
Enforcement order Article 18-2 632 Rosin
Ordinance on Prevention of Lead Poisoning

PRTR Law Class I Designated Chemical Substance Cabinet Order No 304 Lead 38.7%

Other Regulations Air Pollution Control Act Enforcement order Article 1 (hazardous substance)
Lead and its compounds
Water Pollution Control Act Enforcement Act Enforcement order Article2
(hazardous substance) Lead and its compounds
Sewerage Act Enforcement Act Article 9-4 Lead and its compounds
Soil Contamination Countermeasures Act Article 1-19 Lead 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.