SAFETY DATA SHEET

Alloy SN100C WS 488



Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Chemical product and company identification

GHS product identifier : Alloy SN100C WS 488

GHS reference number : GHS113

Product type : Solid. [Solder Paste]

Identified uses

Not applicable.

Supplier's details : International:

AIM

9100 Henri Bourassa East

Montreal, QC H1E 2S4 (514) 494-2000

In China:

AIM Solder (CHANGXING) Company Limited

No.1208-D Chenwang Rd., Taihu St. Changxing County, Huzhou, Zhejiang

0572-6683800

In Malaysia:

AIM Solder (Malaysia)

No. 2A, Jalan Industri Seri Juru,

Taman Industri Seri Juru, 14000 Bukit Mertajam,

Pulau Pinang, Malaysia

+6012 800 1936

Emergency telephone number (with hours of

: INFOTRAC

operation)

North America: (800) 535-5053 International: (352) 323-3500

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 3

SKIN SENSITIZATION - Category 1

AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements

Hazard pictograms :





Signal word : Warning

Hazard statements : Causes mild skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

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Section 2. Hazards identification

Prevention : Wear protective gloves. Avoid release to the environment. Avoid breathing dust.

Contaminated work clothing should not be allowed out of the workplace.

Collect spillage. Take off contaminated clothing and wash it before reuse. IF ON Response SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice

or attention.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not : None known.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture : Mixture : Not available. Other means of

identification

Eye contact

CAS number/other identifiers

CAS number : Not applicable. **EC** number : Mixture.

Ingredient name	%	CAS number
Tin	70 - 95	7440-31-5
Amines, N-tallow alkyltrimethylenedi-, ethoxylated	0.1 - 10	61790-85-0
Terpineol	0.1 - 10	8000-41-7
Rosin	0.1 - 10	8050-09-7
Copper	0.1 - 10	7440-50-8
Nickel	0 - 0.1	7440-02-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. If irritation persists, get medical attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Causes mild skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide
metal oxide/oxides

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Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Tin	ACGIH TLV (United States, 3/2020). TWA: 2 mg/m³, (as Sn) 8 hours. Form: Inhalable fraction
Rosin	ACGIH TLV (United States, 3/2020). Skin sensitizer. Inhalation sensitizer.
Copper	GBZ 2.1 (China, 8/2019). PC-TWA: 1 mg/m³, (as Cu) 8 hours. Form: dust
Nickel	ACGIH TLV (United States, 3/2020). TWA: 1.5 mg/m³ 8 hours. Form: Inhalable fraction

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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Section 9. Physical and chemical properties

Appearance

Physical state : Solid. [Solder Paste]

Color : not available Odor : Typical rosin. **Odor threshold** Not available. pН : Not available. **Melting point** : Not available. **Boiling point** : Not available. Flash point : Not applicable. : Not available. **Evaporation rate**

Flammability (solid, gas) : Slightly flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge.

Lower and upper explosive

(flammable) limits

: Not applicable.

Vapor pressure: Not available.Vapor density: Not applicable.Relative density: Not available.

Solubility : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Terpineol	LD50 Oral		4300 mg/kg	-
Rosin Nickel	LD50 Oral LDLo Oral	Rat Guinea pig	7600 mg/kg 5 mg/kg	-
INICKEI	LDLU Olai	Guiriea pig	5 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Terpineol	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure

: Routes of entry not anticipated: Dermal.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Causes mild skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

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Section 11. Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	172000 mg/kg

Other information

: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Section 12. Ecological information

Toxicity

Acute EC50 1 µg/l Fresh water Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling, Hatchling, Weanling) Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling) Acute IC50 13 µg/l Fresh water Acute IC50 13 µg/l Fresh water Acute IC50 5.4 mg/l Marine water Acute IC50 5.4 mg/l Marine water Chronic NOEC 2.5 µg/l Marine water Chronic NOEC 7 mg/l Fresh water Chronic NOEC 0.02 mg/l Fresh water Chronic NOEC 2 µg/l Fresh water Chronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling, Hatchling, Hatchling	sure	Exposi	Species		Product/ingredient name
dubia - Juvenile (Fledgling, Hatchling, Weanling) Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling) Acute IC50 13 μg/l Fresh water Acute IC50 13 μg/l Fresh water Acute IC50 5.4 mg/l Marine water Acute IC50 5.4 mg/l Fresh water Acute IC50 5.4 mg/l Fresh water Acute IC50 5.4 mg/l Marine water Acute IC50 5.4 mg/l Fresh water Acute IC50 13 μg/l Fresh water Acute	/S	4 days	Aquatic plants - Lemna minor	100 μg/l Fresh water	Copper
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Chronic NOEC 2.5 μg/l Marine water Chronic NOEC 7 mg/l Fresh water Chronic NOEC 0.02 mg/l Fresh water Chronic NOEC 2 μg/l Fresh water Chronic NOEC 2 μg/l Fresh water Chronic NOEC 0.8 μg/l Fresh water	ours	72 hou	subcapitata - Exponential	μg/l Fresh water	
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Chronic NOEC 0.02 mg/l Fresh water Chronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water Unusual Companies - Cambarus bartonii - Mature Daphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling,	/S	3 days	Aquatic plants - Ceratophyllum	C 7 mg/l Fresh water	
Chronic NOEC 0.8 µg/l Fresh water Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling,	ays	21 days	Crustaceans - Cambarus	0.02 mg/l Fresh water	
Chronic NOEC 0.8 µg/l Fresh water Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling,	ays	21 days	Daphnia - Daphnia magna	C 2 μg/l Fresh water	
	eks	6 week			
	/S	4 days	Algae - Macrocystis pyrifera -	ppm Marine water	Nickel

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Section 12. Ecological information

Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis	48 hours
-	bahia - Juvenile (Fledgling,	
	Hatchling, Weanling)	
Acute LC50 1.3 ppm Fresh water	Fish - Cyprinus carpio - Juvenile	96 hours
	(Fledgling, Hatchling, Weanling)	
Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
Official NOLO 3.3 µg/11 restr water	r isir - Oyprinus carpio	- WCCKS

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Terpineol	2.6	24.13	low
Rosin	1.9 to 7.7	-	high

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<u> </u>				
	China	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

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Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

China inventory (IECSC) : All components are listed or exempted.

List of Goods banned for Importing

None of the components are listed.

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia : Not determined.

Canada : Not determined.

Europe : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia: Not determinedNew Zealand: Not determined.Philippines: Not determined.Republic of Korea: Not determined.

Taiwan : All components are listed or exempted.

United States : Not determined.

Section 16. Other information

History

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Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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