SAFETY DATA SHEET

Alloy SAC305 CX18



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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 SAC305 CX18	
GHS reference number	: GHS049	
Product type	: Solid. [Cored Wire]	
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 	
	AIM Solder (SHANGHAI) Company., Limited Room 302-c50, No. 3, Lane 1509, Xinzhen Road, Minhang District, Shanghai 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 operation)	: INFOTRAC North America: (800) 535-5053 International: (352) 323-3500	

Section 2. Hazards identification

Classification of the substa	ance or mixtu	re according to GB 13690	-2009 and GB 30000	-2013	
Classification of the substance or mixture	: AQUATI	C HAZARD (LONG-TERM) - Category 1		
GHS label elements					
Hazard pictograms	:				
Signal word	: Warning				
Hazard statements	: Very tox	ic to aquatic life with long la	asting effects.		
Precautionary statements	È				
Prevention	: Avoid re	lease to the environment.			
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Section 2. Hazards identification

Response	: Collect spillage.
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
Other means of identification	: Not applicable

CAS number/other identifiers		
CAS number	:	Not applicable.
EC number	÷	Mixture.

Ingredient name	%	CAS number
silver	0.1 - 10	7440-22-4
copper	0.1 - 10	7440-50-8

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 a	aid measures
Eye contact :	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. Get medical attention if irritation occurs.
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 :	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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/effe	cts, acute and delayed
Potential acute health effects	
Eye contact :	No known significant effects or critical hazards.
Inhalation :	No known significant effects or critical hazards.

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Section 4. First aid measures

Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>)toms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	dical 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.

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: metal oxide/oxides
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 mode.

Section 6. Accidental release measures

Personal precautions, protect	iv	e 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

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Section 6. Accidental release measures

Small spill	 Move containers from spill area. Vacuum or sweep up material and place 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. Vacuum or sweep up material and place in a designated, 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	Precautions for safe handling					
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.				

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
silver copper	ACGIH TLV (United States, 3/2020). TWA: 0.1 mg/m ³ 8 hours. Form: Dust and fumes GBZ 2.1 (China, 8/2019). PC-TWA: 1 mg/m ³ , (as Cu) 8 hours. Form:
	dust

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls		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 measur	<u>es</u>	
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

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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: safety glasses with side-shields.
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.

Section 9. Physical and chemical properties

Appearance

Appearance		
Physical state	1	Solid. [Cored Wire]
Color	:	Not available.
Odor	:	Not available.
Odor threshold	1	Not available.
рН	:	Not available.
Melting point	1	Not available.
Boiling point	:	Not available.
Flash point	1	Not applicable.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Not applicable.
Vapor pressure	1	Not available.
Vapor density	1	Not applicable.
Relative density	1	Not available.
Solubility	1	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	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 ingre	edients.
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not or	ccur.
Conditions to avoid	: No specific data.	
Incompatible materials	: No specific data.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition pro- should not be produced.	ducts

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

No known significant effects or critical hazards.

Irritation/Corrosion

No known significant effects or critical hazards.

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 : Not available. routes of exposure

Potential acute health effectsEye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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Section 11. Toxicological information

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
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

Not available.

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 Product/ingredient name Species Result **Exposure** silver Acute EC50 1.4 µg/l Marine water Algae - Chroomonas sp. 4 days Acute EC50 0.24 µg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 11 µg/l Fresh water Crustaceans - Ceriodaphnia 48 hours reticulata Acute LC50 2.13 µg/l Fresh water Fish - Pimephales promelas 96 hours Chronic NOEC 5 mg/l Marine water Algae - Glenodinium halli 72 hours copper Acute EC50 1100 µg/l Fresh water Aquatic plants - Lemna minor 4 days Acute EC50 2.1 µg/l Fresh water Daphnia - Daphnia longispina -48 hours Juvenile (Fledgling, Hatchling, Weanling) Algae - Pseudokirchneriella 72 hours Acute IC50 13 µg/l Fresh water subcapitata - Exponential growth phase Date of issue/Date of revision : 4/24/2024 Version :0.12 : 5/6/2024 Date of previous issue 7/10

Section 12. Ecological information

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Acute IC50 5.4 mg/I Marine water	Aquatic plants - Plantae -	72 hours
	Exponential growth phase	
Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda -	48 hours
	Adult	
Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni -	96 hours
	Adult	
Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium -	72 hours
	Exponential growth phase	
Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum	3 days
_	demersum	-
Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus	21 days
	bartonii - Mature	
Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus -	6 weeks
	Juvenile (Fledgling, Hatchling,	
	Weanling)	

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
silver	-	70	low

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

	China	UN	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
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Section 14. Transport information

Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional 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 a	and
enviror	imental	regulations

No known specific national and/or regional regulations applicable to this product 2 (including its ingredients).

specific for the product 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	: All components are listed or exempted.
Europe	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
United States	: Not determined.

Section 16. Other information

<u>History</u>	
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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 = Internediate 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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