

Material Safety Data Sheet

Common Name	SAC305 GLOW CORE		Code	Not available
			Validation	Date 2004-10-12
Product type	Cored wire		Version nu	ımber 3
Synonym	N ot applicable			
Material Uses	Industrial applications: Soldering			
Supplier	AIM		Case of INFOTRA	-
Manufacturer	AIM	En		erica): (800) 535-5053 al): (352) 323-3500

Section 2. Hazardous Components			
Name	CAS#	% by Weight	Toxicity Data (LC50/LD50, TLV)
1) Tin	7440-31-5	92.8-96.3	TWA: 2 (mg/m³) from OSHA (PEL) [United States] [1997] INHALATION Respirable. TWA: 2 (mg/m³) from ACGIH (TLV) [United States] [1994] INHALATION Respirable.
2) Silver	7440-22-4	2.89-2.99	TWA: 0.1 (mg/m³) from ACGIH (TLV) [United States] [1994] INHALATION
3) Hydrogenated rosin	65997-06-0	0.18-3.61	ORAL (LD50): Acute: 8400 mg/kg [Rat]. 5000 mg/kg [Guinea pig].

Section 3. Hazards Identification		
Physical State and Appearance	Solid. (Core wire)	
Emergency Overview	WARNING!!	
	Avoid contact with eyes Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.	
Routes of Entry	Inhalation. Ingestion.	
Potential Acute Health Effects	s	
Eyes	This product may be hazardous in case of eye contact (irritant).	
Skin	This product may be hazardous in case of skin contact (irritant, sensitizer).	
Inhalation	Fumes and/or dusts produced by this product may be hazardous in case of inhalation.	
Ingestion	This product may be hazardous in case of ingestion.	
Potential Chronic Health Effects		
Medical Conditions Aggravated by Overexposures	Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Overexposure /Signs/Symptoms	Not available.	
See Toxicological Information	(section 11)	

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Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen Get medical attention.	
Hazardous Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	
Hazardous Ingestion	Not available.	
Notes to Physician	Not available.	

Section 5. Fire Fighting Measures		
Flammability of the Product	May be combustible at high temperature.	
Auto-Ignition Temperature	Not available.	
Flash Points	Not available.	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2). Some metallic oxides.	
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames and sparks. Non-flammable in presence of shocks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Not available. Non-explosive in presence of shocks.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.	
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.	
Special Remarks on Fire Hazards	Massive metal is nonflammable. Dust and powders may be flammable. (Tin)	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures	
Small Spill and Leak Large Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	No specific data for spill and leak according to our database.

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Section 7. Handling and Storage	
Handling	Avoid contact with eyes Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection	
	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Splash goggles.
Body	Lab coat.
	Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Not applicable.
* Note:Suggested protective	e clothing may not be adequate for a specific process. Consult a specialist before using.
of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Product Name	Exposure Limits
1) (See section 2)	

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Solid. (Core wire)	Odor	Odorless.
Molecular Weight	Not applicable.	Taste	Not applicable.
Chemical formula	Not applicable.	Color	Not available.
pH (1% Soln/Water)	Not applicable.	Specific Gravity	Weighted average: 6.63 (Water = 1)
Acid Value (IPC TM-650, 2.3.13)	Not available.		
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Weighted average: 250.5°C (482.9°F)		
Critical Temperature	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
VOC	Not available.		

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Viscosity	Not available.	
LogK _{ow}	The product is insoluble in water and oil.	
Ionicity (in Water)	Non-ionic.	
Dispersion Properties	Is not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, aceto	ne.
Solubility	Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.	

Section 10. Stability and Reactivity		
Stability and Reactivity	The product is stable.	
Conditions of Instability	Stable in normal conditions. Over melting point, toxic metallic oxides may be evolved.	
Incompatibility with Various Substances	Slightly reactive with oxidizing agents, acids, moisture.	
Hazardous Decomposition Products	Not available.	
Hazardous Polymerization	Will not occur.	
Corrosivity	Not considered to be corrosive for metals and glass according to our database.	
Special Remarks on Corrosivity	Not available.	

Section 11. Toxicological Information		
Toxic and Chronic Effects on Humans	Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). As shipped, this product is not hazardous in case of skin contact (permeator). Non-corrosive for skin. CARCINOGENIC EFFECTSClassified NONE by NIOSH [Tin]. Classified NONE by NIOSH [Silver]. MUTAGENIC EFFECTSNot available. TERATOGENIC EFFECTSNot available. DEVELOPMENTAL TOXICITYNot available. The product may be toxic to kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, eye, lens or cornea. Repeated or prolonged exposure to the substance can produce target organs damage.	
Toxicity to Animals	No specific information is available in our data base regarding the toxicity to animals.	
Special Remarks on Chronic Effects on Humans	Prolonged and repeated exposure to tin oxyde fumes may result in benigne pneumoconiosis (stannosis). (Tin)	
Special Remarks on Other Toxic Effects on Humans	MOLTEN METAL can cause severe BURNS! Fumes and dust may irritate eyes, digestive system and respiratory tract. (Tin)	
Special Remarks on Toxicity to Animals	No additional remark. (Tin)	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Biodegradable/OECD	Not available.	
Mobility	Not available.	
	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
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Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations	
Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information			
DOT Classification	Not a DOT controlled material (United States).		
	Not regulated		
Special Provisions for Transport	Not applicable.		
Special Provisions for Transport			
IMO/IMDG Classification	Not controlled under IMDG.		
Marine Pollutant	Not available.		
ADR/RID Classification	Not controlled under ADR (Europe).	1	
ICAO/IATA Classification	Not controlled under IATA.		

HCS Classification	Class: Irritating substance. Class: Sensitizing substance. Class: Target organ effects.
U.S. Federal Regulations	TSCA 8(a) PAIR: Silver TSCA inventory: Tin; Silver; Copper; Hydrogenated rosin SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Tin; Silver; Copper SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Tin: immediate health hazard; Silver: immediate health hazard; Copper: immediate health hazard SARA 313 toxic chemical notification and release reporting: Silver: 1%; Copper: 1% Clean water act (CWA) 307: Silver; Copper Clean water act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found.
State Regulations	Rhode Island RTK hazardous substances: Tin Pennsylvania RTK: Tin: (generic environmental hazard); Silver: (environmental hazard, generic environmental hazard); Copper: (environmental hazard) Florida: Tin; Silver Minnesota: Tin; Silver Michigan critical material: Silver Massachusetts RTK: Tin; Silver; Copper New Jersey: Tin; Silver; Copper New Jersey spill list: Tin

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	California prop. 65: No products were found.	
International Regulations		
EINECS	Not available.	
DSCL (EEC)	36/38- Irritating to eyes and skin. 43- May cause sensitization by skin contact.	
International Lists	Australia (NICNAS): Tin; Silver; Copper; Hydrogenated rosin	
	Korea (TCCL): Tin; Silver; Copper; Hydrogenated rosin	
	Philippines (RA6969): Tin; Silver; Copper; Hydrogenated rosin	

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Label statements

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LUNGS, LIVER, MUCOUS MEMBRANES, RESPIRATORY TRACT, SKIN, CRYSTALLINE LENS OR CORNEA. MAY CAUSE EYE AND SKIN IRRITATION.

MAY CAUSE SKIN REACTION.

References

-CHEMTOX database

Other Special Considerations

-ALL COMPONENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % (GREATER THAN 0.1 % FOR CARCINOGENS) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.

SAFETY DOCUMENT.

Document Modifications

Validated by R. Richard on 2004-10-12.

AIM

Verified by R. Richard. Printed 2004-10-12.

Information/Contact

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