

CircuitMedic, 22 Parkridge Road, Haverhill, MA 01835 USA
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Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Solder Wire, Lead-Free, SAC305, Flux-Cored
Product Number:	115-2404
UFI Number:	20KX-T9TC-R30F-STSA
Recommended use:	Flux-cored solder wire for general purpose for hand soldering in the electronics industry.
Supplier:	CircuitMedic 22 Parkridge Road, Haverhill, MA 01835 USA PHONE: 978-373-1600, FAX: 978-372-5700
Emergency Response:	For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 CCN4877 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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Section 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture							
GHS label elements:	The product is classified and labeled according to the Globally Harmonized System(GHS).						
Hazard pictograms	 HEALTH HAZARD  HARMFUL/ IRRITANT GHS08 Health hazard Carc. 2 H351 Suspected of causing cancer. Repr. 1 H360 May damage fertility or the unborn child. STOT RE 2 H373 May cause damage to the organs through prolonged or repeated exposure. GHS07 Acute Tox. 4 H302 Harmful if swallowed.						
Signal Words:	Warning						
Hazard components:	Modified Rosin, Dicarboxylic acid						
Hazard Statements:	H317 May cause an allergic skin reaction.						
Precautionary Statements:	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P402 - Store in a dry place. P501 - Dispose of following Local, State, Federal, and Provincial regulations.						
Classification System:	HMIS-rating (scale 0-4) <table><tr><td>Health</td><td>0</td></tr><tr><td>Flammability</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health	0	Flammability	0	Reactivity	0
Health	0						
Flammability	0						
Reactivity	0						
Other hazards:	PBT: Not applicable. vPvB: Not applicable.						

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Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture of the substances listed below with nonhazardous additions.

CAS Number	Description	Notes	% Range
7440-31-5	Tin (Sn)		85-100%
7440-22-4	Silver (Ag)		1.0-3.0%
Trade Secret	Modified Rosin	Skin Sens. 1, H317	1.0-3.0%
Trade Secret	Dicarboxylic acid	Acute Tox. 4, H302; Eye Irrit .2A, H319; Skin Sens. 1, H317	0.1% to less than 1%

Section 4. FIRST-AID MEASURES

Description of first aid measures	
General information:	Follow general first aid procedures.
Inhalation:	Supply fresh air; consult doctor in case of complaints.
Skin Contact:	Immediately wash with water and soap and rinse thoroughly.
Eye Contact:	Rinse the opened eye for several minutes under running water.
Ingestion:	Seek immediate medical advice.
Information for doctor	
Most important symptoms and effects, both acute and delayed:	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5. FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture:	No additional information available.
Advice for firefighters	
Protective equipment:	No special measures required.

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Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation	
Environmental Precautions:	Do not allow entry into sewers/surface or ground water.	
Methods and material for containment and cleaning up:	Pick up mechanically.	
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
PAC-1:		
CAS:7440-31-5	Tin (Sn)	6 mg/m3
CAS:7440-22-4	Silver (Ag)	0.3 mg/m3
CAS:7440-50-8	Copper (Cu)	3 mg/m3
PAC-2:		
CAS:7440-31-5	Tin(Sn)	67 mg/m3
CAS:7440-22-4	Silver (Ag)	170 mg/m3
CAS:7440-50-8	Copper (Cu)	33 mg/m3
PAC-3:		
CAS:7440-31-5	Tin(Sn)	400 mg/m3
CAS:7440-22-4	Silver (Ag)	990 mg/m3
CAS:7440-50-8	Copper (Cu)	200 mg/m3

Section 7. HANDLING AND STORAGE

Handling	
Precautions for safe handling:	No special measures required.
Information about protection against explosions and fires:	No special measures required.
Conditions for safe storage, including any incompatibilities	
Requirements to be met by storerooms and receptacles:	Store in a cool location.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	None.
Specific end use(s):	No further relevant information available.

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Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	
Components with limit values that require monitoring at the workplace:	The following constituents are the only constituents of the product that have a PEL, TLV, or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
CAS:7440-31-5 Tin (Sn)	
PEL:	Long-term value: 2 mg/m ³ metal
REL:	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³
7440-22-4 Silver (Ag)	
PEL:	Long-term value: 0.01 mg/m ³ metal
REL:	Long-term value: 0.01mg/m ³
TLV	Long-term value: :0.1mg/m ³ metal: dust and fume
Exposure Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Individual protection measures	
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be followed. Wash hands before breaks and at the end of work.
Breathing equipment:	Not necessary if the room is well ventilated. Use a suitable respiratory protective device in case of insufficient ventilation.
Protection of hands:	Protective gloves. Nitrile rubber, NBR; Natural rubber, NR
Eye protection:	Safety glasses.

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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Physical State:	Solid.
Color:	Silver grey
Odor:	Mild.
pH:	Not applicable..
Melting Temperature:	217 °C (423 °F) Undetermined.
Boiling Temperature:	217 °C (423 °F)
Flash Point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Ignition Temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapor Pressure:	Not applicable.
Vapor Density:	Not applicable.
Solubility in/Miscibility with Water:	Insoluble.
Solvent content:	Organic solvents: 0.0%; Solids content: 100.0%

Section 10. STABILITY AND REACTIVITY

Reactivity	
Reactivity:	No further relevant information available.
Thermal decomposition/conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	No dangerous decomposition products known.

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Section 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Primary irritant effect on the skin:	No irritant effect..
Eye Toxicity:	Irritating effect.
Sensitization:	Sensitization possible through inhalation.
Carcinogenic categories	
IARC (International Agency for Research on Cancer):	None of the ingredients is listed.
NTP (National Toxicology Program):	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration):	None of the ingredients is listed.

Section 12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No further relevant information available.
General notes:	Do not allow undiluted product or large quantities of it to reach groundwater, watercourse, or sewage system. Results of PBT and vPvB assessment - PBT: Not applicable. vPvB: Not applicable.

Section 13. DISPOSAL CONSIDERATIONS

Waste treatment method recommendation:	Must not be disposed of together with household garbage. Do not allow tallow products to reach the sewage system.
Uncleaned packagings recommendation:	Disposal must be made according to official regulations.

Section 14. TRANSPORT INFORMATION

UN "Model Regulation":	Not applicable
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Section 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	All ingredients are listed on the following Government Inventories: China: Inventory of Existing Chemical Substances in China(IECSC) Korea: Korea Existing Chemicals List(ECL) Europe: European Inventory of Existing Commercial Chemical Substances(EINECS) Japan: Inventory of Existing and New Chemical Substances (ENCS) Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS) USA: TSCA (Toxic Substances Control Act)TSCA Inventory of Chemical Substances		
The following information relates to product regulation specific to the USA.			
Section 355:	None of the ingredient is listed.		
Section 313:	CAS:7440-22-4 Silver (Ag); CAS:7440-50-8 Copper (Cu)		
California Proposition 65 Chemicals known to cause cancer:	None of the ingredients is listed.		
Chemical known to cause reproductive toxicity:	None of the ingredients is listed.		
Carcinogenic categories EPA:	CAS:7440-22-4 Silver (Ag); CAS:7440-50-8 Copper (Cu)		
NIOSH-Ca(National Institute for Occupational Safety and Health):	None of the ingredients is listed.		
Canada:	Workplace Hazardous Materials Identification (WHMIS): This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR), and the Safety Data Sheet (SDS) contains all of the information required by the CPR.		
GHS label elements:	The product is classified and labeled according to the Globally Harmonized System (GHS).		
Hazard pictograms:		GHS07	
Signal word:	Warning		
Hazard-determining components of labeling:	Modified Rosin, Dicarboxylic acid		
Hazard statements:	H317 May cause an allergic skin reaction.		
Precautionary statements:	P280 Wear protective gloves/protective clothing/eyeprotection/face protection. P302+P352IFONSKIN: Wash with plenty of soap and water. P333+P313If skin irritation or rash occurs: Get medical advice/attention. P402 Store in a dry place. P501 Dispose of contents/container following local/regional/national/international regulations.		
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.		

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Section 16. OTHER INFORMATION

HMIS:	Health	1
	Flammability	1
	Reactivity	0
	PPE	X

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