

Material Safety Data Sheet

Manufacturer Nihon Almit Co, Ltd
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Nakano-ku, Tokyo, Japan
Phone Number (For Information)
03-3379-2277
Emergency Phone Number
042-559-5611 (Micro-soldering Lab)

ROSIN FLUX-CORED SOLDER

Identity (Trade Name As Used On Label)

Almit KR-19RA Sn60 P-3

MSDS Number -----

CAS Number -----

Date Prepared Oct-18, 2002

Prepared By Tadashi Sawamura

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-Chemical Name & Common Names (Hazardous Components 1% or greater: Carcinogens 0.1% or greater)	%	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	CAS No.
Flux	3.3			8050-09-7
Tin	60.0	2	2	7440-31-5
Lead	Balance	0.05	0.05	7439-92-1
<u>Non Hazardous Ingredients</u>				
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

<u>Specific Gravity (H₂O=1)</u>	8.5 (Solder)	<u>Specific Gravity (H₂O=1)</u>	1.16 (Flux)
<u>Solidus</u>	183°C	<u>Melting Point</u>	66°C (Flux)
<u>Liquidus</u>	190°C	<u>Boiling Point</u>	350°C (Flux)
<u>Vapor Pressure</u> (mmHg and Temperature)		<u>Evaporation Rate</u> (Butylacetate=1)	
<u>Vapor Density (Air=1)</u>	1.2 (Flux)	<u>Water Reactive</u>	None
<u>Solubility in Water</u>	insoluble		
<u>Appearance and Odor</u>	Gray metallic Wire with Rosin Core		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA
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<u>Flash Point and Method Used</u>		<u>Auto-Ignition Temperature</u>	
<u>Flammability Limits</u> Air % by Volume	not measured	LEL	UEL
<u>Extinguisher</u>			
<u>Media</u>	NA		
<u>Special Fire Fighting Procedures</u>	NA		
<u>Unusual Fire and Explosion Hazards</u>	None		

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid
Incompatibility (Materials to Avoid) None	
Hazardous Decomposition Products None	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Absorption	<input type="checkbox"/> Ingestion <input type="checkbox"/> Not Hazardous	CARCINOGEN LISTED IN <input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> OSHA <input type="checkbox"/> Not Listed
HEALTH HAZARDS	Acute None Chronic None		
Signs and Symptoms of Exposure None			
Medical Conditions Generally Aggravated by Exposure None			
EMERGENCY FIRST AID PROCEDURES			
Eye Contact	Wash with water	follow a doctor's advice	
Skin Contact	Wash with soap and water	follow a doctor's advice	
Inhalation	take rest in fresh air	follow a doctor's advice	
Ingestion	vomit out	follow a doctor's advice	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)			
Protective Gloves	gloves	Eye Protection	spectacles
VENTILATION TO BE USED	<input checked="" type="checkbox"/> Local Exhaust Necessary	<input type="checkbox"/> Mechanical (general)	<input type="checkbox"/> Special
<input type="checkbox"/> Other (specify) None			
Other Protective Clothing and Equipment None			
Hygienic Work Practices Wear gloves when handling. Wash hands after working.			

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be Taken if Material is Spilled Or Released	Never occurs in case of rosin flux wire solder.
Waste Disposal Methods	Consult your local or state regulations authority.
Precautions to be Taken in Handling and Storage	Keep in dark and cool place.
Other Precautions and/or Special Hazards None	
NFPA Rating* Health 3 Flammability 0 Reactivity 0 Special	
HMIS Rating* Health 1 Flammability 0 Reactivity 0 Personal Protection	

*Optional