

Material Safety Data Sheet



Revision Date: 06/27/2008

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:63/37 C502 3C 0.56MM 0.5KG AM (0.022)Product type:Solder WireCompany address:Henkel Corporation15051 East Don Julian RoadIndustry, California 91746

Item No. :MM00975 / IDH No. 386851Region:United StatesContact Information:Telephone: 626.968.6511Emergency Telephone: 860.571.5100Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u> Tin 7440-31-5	<u>%</u> 60-100	ACGIH TLV 2 mg/m ³ TWA 2 mg/m ³ TWA except Tir hydride	2 mg/m³ TWA as Sn 2 mg/m³ TWA	OTHER None
Lead 7439-92-1	30-60	0.05 mg/m ³ TWA	30 μg/m ³ Action Level as Pb. Poison - see 29 CFR 1910.1025 50 μg/m ³ TWA as Pb 50 μg/m ³ PEL as Pb	None
Modified Resin Proprietary	1-5	None	None	None

3. HAZARDS IDENTIFICATION

		EMERGENCY OVERVIEW HMIS:	
Physical state:	Paste	HEALTH:	3*
Color: Odor:	Grey Metallic Sweet	FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	1 0 See Section 8
DANGER	POSSIBL	VOLVED DURING SOLDERING WILL IRRITATE THE EY E CANCER HAZARD. L IF SWALLOWED, ABSORBED THROUGH SKIN OR INF	
Relevant routes of exposure: Skin, Inhalation, Eyes			
Potential Health Eff	ects		
Inhalation:		Lead is a cumulative poison and continuous exposure to small amount content to toxic levels. Excessive inhalation of fumes from many metals known as "metal fume fever". Symptoms consist of chills and fever (ver with flu symptoms) which come on a few hours after large exposures.	s can produce an acute reaction
Skin contact	::	Harmful if absorbed through skin. Prolonged or repeated skin contact may cause irritation, skin sensitization and argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and mucous membranes that is irreversible).	
Eye contact: Ingestion:		Contact with eyes will cause irritation. Not expected under normal conditions of use. Lead is a cumulative poi	can and continuous avpasura to
ingestion.		small amounts over time can raise the body's content to toxic levels.	son and continuous exposure to
Existing conditions exposure:	aggravated by	Repeated or prolonged exposure to lead and its compounds may produce by an accumulation in one or more human organs.	uce general health deterioration
		See Section 11 for additional toxicological information.	

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4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin contact:	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	Get medical attention immediately. Induce vomiting as directed by medical personnel if person is conscious.

5. FIRE-FIGHTING MEASURES

Flash point:	Does not flash.		
Autoignition temperature:	Not applicable		
Flammable/Explosive limits-lower %:	Not applicable		
Flammable/Explosive limits-upper %:	Not applicable		
Extinguishing media:	Foam, dry chemical or carbon dioxide.		
Special fire fighting procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Do not use water on fires where molten metal is present. High temperatures may produce heavy metal fumes, dust and vapor.		
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.		
Hazardous combustion products:	Oxides of carbon. Oxides of Metals in Section 2. The flux medium will give rise to irritating fumes. Thermal oxidation may result in the formation of formaldehyde. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat.		
	6. ACCIDENTAL RELEASE MEASURES		
Environmental precautions:	Do not let product enter drains.		
Clean-up methods:	Scrape up spilled material and place in sealed container for disposal.		
7. HANDLING AND STORAGE			
Handling:	Avoid contact with molten material. Avoid contact with eyes, skin and clothing. Do not wear contact lenses. Wash thoroughly after handling.		
Storage:	Store in original container until ready to use.		
Incompatible products:	Oxidizing agents. Strong acids or bases.		
For information on product shelf life contact Henkel Customer Service at (800) 243-4874.			
	on on product shell life contact Heriker Customer Service at (600) 243-4674.		
	XPOSURE CONTROLS / PERSONAL PROTECTION		

Engineering controls:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.
Eye/face protection:	Safety goggles or safety glasses with side shields.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Ρ
Color:	G
Odor:	S
Vapor pressure:	n
pH:	Ν
Boiling point/range:	Ν
Melting point/range:	1
Specific gravity:	8
Vapor density:	Ν
Evaporation rate:	Ν
Solubility in water:	Ir
Partition coefficient (n-octanol/water):	N
VOC content:	Z

Paste Grey Metallic Sweet negligible vapor pressure at ambient temperatures Not applicable Not determined 183°C (361°F) (solder alloy) 8.4 Not applicable Not available Insoluble. Not determined Zero

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of Metals in Section 2. Formaldehyde.
Incompatability:	Acids and bases. Oxidizing agents.
Conditions to avoid:	Avoid contact with acids and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Tin	No	No	No
7440-31-5			
Lead 7439-92-1	Suspect Carcinogen	Group 2B	Yes
Modified Resin Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Tin	Nervous System, Lung, Liver, Kidney, Irritant, Gastrointestinal
7440-31-5	
Lead	Thyroid, Some evidence of carcinogenicity, Skin, Reproductive, Nervous System, Muscle, Liver, Kidney,
7439-92-1	Gastrointestinal, Eyes, Developmental, Blood, Behavioral
Modified Resin	No Records
Proprietary	

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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Recommended method of disposal:	Dispose of in accordance with Federal, State and local regulations. Do not dispose of in an uncontrolled manner.
PA hazardous waste number:	D008 Lead
	14. TRANSPORT INFORMATION
J.S. Department of Transportation Gro	ound (49 CER):
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
nternational Air Transportation (ICAO	//IATA):
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
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NaterTransportation (IMO/IMDG):	
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
	15. REGULATORY INFORMATION
United States Regulatory Information	
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Lead (CAS#
	7439-92-1).
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
Canada Regulatory Information	
CEPA DSL/NDSL Status: WHMIS hazard class:	Contains one or more components listed on the Non-Domestic Substances list. D.2.A, D.2.B
	16. OTHER INFORMATION
This material safety data sheet contain	ns changes from the previous version in sections: 2,3,4,5,6,8,10
Prepared by:	Lou Fabrizio, Senior Health & Regulatory Affairs Specialist For Safety and Regulatory Information contact:
	Por Safety and Regulatory Information contact. Product Safety and Regulatory Affairs, Rocky Hill, CT.

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