

Revision Date: 06/25/2008

Issue date: 06/25/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 97SC C400 3C 0.81MM 0.5KG AM
Product type: Solder Wire
Company address:
 Henkel Corporation
 15051 East Don Julian Road
 Industry, California 91746

Item No. : MM01877 / IDH No. 673829
Region: United States
Contact Information:
 Telephone: 626.968.6511
 Emergency Telephone: 860.571.5100
 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Tin 7440-31-5	60-100	2 mg/m ³ TWA 2 mg/m ³ TWA except Tin hydride	2 mg/m ³ TWA as Sn 2 mg/m ³ TWA	None
Silver 7440-22-4	1-5	0.1 mg/m ³ TWA	0.01 mg/m ³ TWA	None
Modified rosin	0.1-1	None	None	None
Modified Resin Proprietary	0.1-1	None	None	None
Copper 7440-50-8	0.1-1	0.2 mg/m ³ TWA 1 mg/m ³ TWA	0.1 mg/m ³ TWA fume 1 mg/m ³ TWA dusts and mists	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

<u>HMIS:</u>	
Physical state: Paste	HEALTH: 2*
Color: Grey Metallic	FLAMMABILITY: 1
Odor: Sweet	PHYSICAL HAZARD: 0
	Personal Protection: See Section 8

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. FLUX FUMES GIVEN OFF DURING REFLOW WILL IRRITATE THE EYES, NOSE AND RESPIRATORY SYSTEM. CONTACT WITH FLUX RESIDUES MAY CAUSE SKIN OR RESPIRATORY TRACT IRRITATION OR SENSITIZATION. MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Fumes and/or dust produced by this product may be hazardous in case of ingestion or inhalation. Rosin thermal decomposition product (as formaldehyde) is classified by NIOSH as a potential occupational carcinogen. Fumes may be irritating or cause sensitization to the respiratory system. Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures.

Skin contact: 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: Contact with eyes will cause irritation.

Ingestion: Not expected under normal conditions of use. Harmful if swallowed.

Existing conditions aggravated by exposure: Not available

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See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms develop and persist.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion:	Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F)
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.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon. Oxides of Metals in Section 2. Formaldehyde. The flux medium will give rise to irritating fumes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with molten material. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store in original container until ready to use.
Incompatible products:	Strong acids or bases. Oxidizing agents.

For information on product shelf life contact Henkel Customer Service at (626) 968-6511

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
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.

See Section 2 for exposure limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Grey Metallic
Odor:	Sweet
Vapor pressure:	negligible vapor pressure at ambient temperatures
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	217°C (423°F) (solder alloy)
Specific gravity:	7.5
Vapor density:	Not applicable
Evaporation rate:	Not available
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Zero

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Formaldehyde.
Incompatibility:	Acids and bases, Oxidizing agents.
Conditions to avoid:	Avoid contact with acids and oxidizing agents. High temperatures.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Tin 7440-31-5	No	No	No
Silver 7440-22-4	No	No	No
Modified rosin	No	No	No
Modified Resin Proprietary	No	No	No
Copper 7440-50-8	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Tin 7440-31-5	Nervous System, Lung, Liver, Kidney, Irritant, Gastrointestinal
Silver 7440-22-4	Skin, Respiratory, Irritant, Eyes, Allergen
Modified rosin	No data
Modified Resin Proprietary	No Records
Copper 7440-50-8	Skin, Sensory, Mutagen, Liver, Kidney, Irritant, Immune system, Gastrointestinal, Central nervous system, Blood, Allergen, Developmental

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.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations. Do not dispose of in an uncontrolled manner.

EPA hazardous waste number: D011 Silver

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (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: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: Silver (CAS# 7440-22-4).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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