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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE ARAX 96S 4C 1.6MM H IDH number:

known as 96S ARAX 4C 1.6MM 0.5KG

ΑM

Product type:Solder WireItem number:MM02358Restriction of Use:None identifiedRegion:United States

Company address: Contact information:

Henkel Corporation Telephone: +1 (860) 571-5100

One Henkel Way MEDICAL EMERGÉNCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711

ecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

1042097

### 2. HAZARDS IDENTIFICATION

WARNING: CAUSES SKIN IRRITATION.
CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A

#### PICTOGRAM(S)



#### **Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Wear eye and face protection. Wear protective gloves. **Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take

off contaminated clothing.

Storage: Not prescribed Disposal: Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Tin	7440-31-5	60 - 100
Silver	7440-22-4	1 - 5
Ammonium chloride	12125-02-9	0.1 - 1

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Ammonium bifluoride 1341-49-7 0.1 - 1

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

medical attention. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

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### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high

volume water jet.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: In case of fire, keep containers cool with water spray.

High temperatures may produce heavy metal dust, fumes or vapours. The flux Hazardous combustion products:

will give rise to irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and

eye/face protection. Scrape up spilled material and place in a closed container

for disposal.

### 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear suitable protective clothing, gloves

and eye/face protection. Avoid contact with eyes, skin and clothing. Always be

careful around molten material. Wash thoroughly after handling.

For safe storage, store between 15 °C (59°F) and 30 °C (86°F) Storage:

Store in original container until ready to use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tin	2 mg/m3 TWA	2 mg/m3 PEL (as Sn)	None	None
Silver	0.1 mg/m3 TWA Dust and fume.	0.01 mg/m3 PEL (as Ag)	None	None
Ammonium chloride	20 mg/m3 STEL Fume. 10 mg/m3 TWA Fume.	None	None	None
Ammonium bifluoride	2.5 mg/m3 TWA (as F)	2.5 mg/m3 PEL (as F) 2.5 mg/m3 TWA Dust.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:**Use impermeable gloves and protective clothing as necessary to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:SolidColor:Metallic, GrayOdor:SweetOdor threshold:Not available.pH:Not applicable

Vapor pressure: Negligible vapor pressure at ambient temperatures.

Boiling point/range: Not determined

Melting point/ range: 221 °C (429.8 °F) (solder alloy)

Specific gravity: 7.5
Vapor density: Not applicable

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Flash point: Not applicable Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not applicable **Evaporation rate:** Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not determined **VOC** content: 0 %; 0 g/l Not available. Viscosity: **Decomposition temperature:** Not available.

### 10. STABILITY AND REACTIVITY

Stability: Not available.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of Metals in Section 2. Thermal decomposition can lead to release of

irritating gases and vapors. Formaldehyde.

**Incompatible materials:** Strong oxidizing agents. Strong acids and strong bases.

Reactivity: Not available.

Conditions to avoid: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

High temperatures.

### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation: Inhalation of processing fumes may be harmful. Excessive exposure to tin fumes or dust may

cause Stannosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors. 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: Causes skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and

mucous membranes that is irreversible).

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tin	None	Gastrointestinal, Irritant, Kidney, Liver, Lung, Nervous System
Silver	Oral LD50 (RAT) = > 5,000 mg/kg Dermal LD50 (RAT) = > 2,000 mg/kg	Allergen, Eyes, Irritant, Respiratory, Skin
Ammonium chloride	Oral LD50 (RAT) = 1,650 mg/kg	Central nervous system, Eyes, Irritant, Metabolic
Ammonium bifluoride	Oral LD50 (RAT) +/- 130 mg/kg	Cardiac, Corrosive, Gastrointestinal tract, Irritant, Kidney, Lung, Metabolic, Nervous System, Respiratory, Teeth

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tin	No	No	No
Silver	No	No	No
Ammonium chloride	No	No	No
Ammonium bifluoride	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains / surface water / ground water.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D011. Silver.

#### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

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

International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
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 above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: 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). Silver (CAS# 7440-22-4).

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

**Canada Regulatory Information** 

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CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

# 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Michele Oltra, Regulatory Affairs Specialist

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