

MATERIAL SAFETY DATA SHEET

QUIK-FLO 3 ® SOLDER

SECTION I – PRODUCT INFORMATION

Distributor's name: Allied Rubber & Gasket Company, Inc. – ARGCO
2610 Commerce Way
Vista, Ca 92081

In case of emergency: Call 1-800-424-9300

For information call: (800) 854-1015

Date prepared: 3/25/10

Product name: Quik-Flo 3 Solder

Product Identity: Copper-Tin Soldering Alloys: Chemical Family Soldering Filler Metal

SECTION II – HAZARDOUS CHEMICAL COMPONENTS

Component: Copper CAS Number 7440-50-8 % of Mixture 1.5 – 6
OSHA PEL: Fume: 0.1 mg/M3 (TWA) ACGIH TLV's (1992-93) Fume: 0.2 mg/M3
Dusts and Mists: 1 mg/M3

Component: Tin CAS Number 7440-31-5 % of Mixture Balance
OSHA PEL: Inorganic Compounds ACGIH TLV's: 2.0 mg/M3
And Oxide as SN: 2 mg/M3 **Dusts and Mists:** 1 mg/M3

SECTION III – PHYSICAL DATA

Melting Point: 640° F – 344°C **Appearance and odor:** Blue flowable paste. Slight alcohol odor

% Volatile (by weight): 28 **Specific Gravity (H2O = 1):** 1.3

Solubility in Water: Insoluble **% Volatile organic compounds:** 28

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point : NA

Auto Ignition: NA

Flammability Class: NA

Explosive Limits: NA

Fire and Explosion Hazards: In finely divided forms, this material may ignite when exposed to flame or by reaction with incompatible materials. Fires or explosions involving this material may release emissions of metal or metal oxide fumes. See Section 2 for hazardous components and/or reaction product.

Extinguishing Media: Use dry powder extinguishers only. Do Not Use Water.

Special Fire Fighting Instructions: Use self contained breathing apparatus with full face-piece, operated in pressure-demand or other positive pressure mode.

SECTION V – EXPOSURE EFFECTS AND FIRST AID

Route of Exposure – Inhalation: Inhalation of the components of this material may produce the following:

COPPER: Acute exposure may cause respiratory tract irritation, fever, muscle ache, cough, chills, physical weakness and a metallic taste. Chronic exposure may cause damage to the liver, spleen, pancreas and brain.

TIN: Exposure to tin dust and fumes by inhalation can cause stannosis, a benign pneumoconiosis, as well as possible dyspnea and upper respiratory tract irritation.

FIRST AID PROCEDURES:

Inhalation: If signs and symptoms of toxicity are observed, remove subject from contaminated area, administer oxygen and see medical attention. Keep subject warm and at rest. Perform artificial respiration if breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

Skin Contact: Skin contact with this material in solid forms is not known to be hazardous. In powdered form, skin contact may produce localized irritation, localized argyria (from silver) and/or skin discoloration and/or dermatitis (from copper).

Eye Contact: Flush with large amounts of water for at least fifteen minutes.

Ingestion: If subject is conscious, induce vomiting either by giving ipecac syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Neither copper nor Tin are classified as potential or demonstrated human carcinogens by IARC, NIOSH, NTP, OSHA or ACGIH.

SECTION VI – REACTIVITY AND POLYMERIZATION

Stability: Stable Conditions to Avoid (Stability): Stable at room temperature.

Incompatible Materials: Strong oxidizers, SE, TE, Mg, acetylene, NH₃, HNO₃, azides; ethanol; ethylene imine; CF₃; inorganic and organic peroxides; peroxyformic acid; chlorine; fluorine; permonosulfuric acid; chlorates; CrO₃; Mn and Ca chlorides; CS₂, hydrazine mononitrate,; nitrobenzene, Fe(Co₅); seleninyl bromide.

Hazardous Decomposition Products: Heating to soldering temperatures may liberate oxides of metals as fume. For specific hazardous components and decomposition products, see Section 2.

Conditions to Avoid (Polymerization): NA. **Hazardous Polymerization:** Does not occur.

SECTION VII – SPECIAL PRECAUTIONS

Respiratory Protection: If work place exposure limit(s) of product or any component is exceeded (see Section II), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control engineering or administrative controls should be implemented to reduce exposure.

SECTION VII – SPECIAL PRECAUTIONS - Continued

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses (consult your safety equipment supplier).

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Protective Gloves: Wear resistant gloves such as neoprene.

Other Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing or boots.

SECTION IX – STORAGE AND HANDLING

Storage and Handling Conditions: Do not store at highly elevated temperatures or in close proximity to incompatible materials (See Section 6).

SECTION X – SHIPPING INFORMATION

Hazard Class: Not controlled by DOT, IATA, ICAO or IMO regulations

Disclaimer

The information contained herein is accurate and reliable as of the date issued to the best of the manufacturer's knowledge. ARGCO doesn't warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising from the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

END OF MATERIAL SAFETY DATA SHEET