# JOHNSON MANUFACTURING COMPANY Material Safety Data Sheet

to comply with 29 CFR 1910.1200, OSHA's Hazard Communication Standard Manufactured for Chip Quik , Inc. by Johnson Mfg. Co.

#### Chip Quik Alloy w/Lead in Part #'s SMD1, SMD4.5, SMD8, SMD16, SMD32, SMD2000

#### Section I:

Johnson Manufacturing Company 114 Lost Grove Road Princeton IA 52768 Emergency Telephone 1-(563)-289-5123 CHEMTREC after hours 1-(800)-424-9300 Revised 1/1/2009

## Section II: Hazardous Ingredients/Identity information

H	lazardous	Component	CAS #	OSHA TWA	ACGIH TWA	Other limi	lts
							807
	Tin	7440-31-5		2mg/M3	2mg/M3	NE	12%
* +	+ Lead	7439-92-1		0.05mg/M3	0.05mg/M3	NE	18
	Bismuth	7440-69-9		NE	NE	NE	49
	Indium	7440-74-6		0.1mg/M3	0.1mg/M3	NE	21

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. An ingredient marked with an asterisk(\*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)

# Section III: Physical/Chemical Characteristics

Boiling Point: 2840 F	Specific Gravity: 9.0		
Vapor Pressure (mm Hg): 760 @ 3164F	Melting Point: 291 F		
Vapor Density: NE	Evaporation Rate		
Solubility in water: insoluble	(butyl acetate=1): < 1		
Appearance and odor: silver grey solid,	odorless		

# Section IV: Fire and Explosion Hazard Data

Flash Point: non flammable Flammable limits lel: NA uel: NA Extinguishing media: all Special fire fighting procedures: use self-contained breathing apparatus Unusual Fire and Explosion Hazards: May release toxic metal & oxide fumes. High concentrations of dust may present explosion hazard. Water trapped below molten metal may explode thus spattering molten metal.

# Section V: Reactivity Data

Stability : STABLE Conditions to avoid : none
Incompatibility (materials to avoid): oxidizing materials, turpentine, acids, chlorides.
Hazardous Decomposition or Byproducts (incomplete combustion): toxic metal & metal oxide
fumes
Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

# Section VI: Health Hazard DataRoutes of entry: Inhalation? yes Skin? no Ingestion? Yes

Health Hazards (acute and chronic): Contact with dust & fumes may cause skin, eye and respiratory irritation. Ingestion and/or inhalation of material or fumes may result in "metal fume fever", flu like symptoms, insomnia, muscle weakness, nausea and abdominal pain. Gross inhalation or ingestion may be toxic and can result in death. Symptoms of toxicity may take hours or days to manifest. Chronic exposures, inhalation or ingestion, may result in kidney, red blood cell, reproductive & nervous system effects. Health effects may be cumulative over many exposures. Studies show that health risks vary by individual. Minimize exposure as a precaution. See OSHA 29CFR 1910.1025(subpart Z) for more information.

Carcinogenicity: not determined NTP? no IARC Monographs? Lead-suspect

Signs and symptoms of exposure: Inhalation-Nose & throat irritation, headache, dizziness, difficulty breathing, coughning, flu like symptoms, metallic taste in mouth. Ingestion-nausea, vomiting, cramps. Skin-redness, burning, rash. Eye-redness, tearing, blurred vision.

Medical Conditions Aggravated by exposure: Blood, kidney, reproductive &nervous system conditions

Emergency first aid procedures:

Skin: Flush with water immediately - Seek medical attention if burns are present. Eyes: Flush with water for 15 minutes - Seek medical attention Ingestion: Drink large amounts of water, induce vomiting if practical-seek medical

attention. Never give anything by mouth to an unconscious person. Inhalation: Remove to fresh air. Support respiration if required - Seek medical

attention.

## Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Vacuum, absorb or flush in to a chemical sewer. Do not use any method which will generate dust. Waste Disposal Method: dispose of in accordance with all local state and federal regulations

Other Precautions: Avoid skin & eye contact, inhalation & ingestion of material or fumes. Wash thoroughly after use. Wash contaminated clothing before reuse. Avoid eating or smoking in lead use area. Keep away from children.

#### Section VIII: Control Measures

Respiratory Protection (type): Dust mask for particulates. Metal fume/HEPA respirator for fumes. Ventilation Local Exhaust preferred Special: HEPA filters required Mechanical: OK Other: NE Protective Gloves: impervious Eye Protection: Goggles or face shield Other Protective Clothing or Equipment: as required to avoid contact. Work/Hygienic Practices: Wash after use. Follow good industrial hygienic practices.

#### Section IX: Additional Information

DOT/IATA Hazard Classification: This product is not listed as a DOT or IATA hazardous material. NFPA Classification (NFPA 325M,8<sup>th</sup> edition)(Health, Flammability, Reactivity): 2-0-0This product contains components known to the state of California to cause cancer or reproductive harm.

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