CHIPQUIK[®] Lead Free Solder Wire and Spheres

www.chipquik.com

Safety Data Sheet (SDS) www.chipquik.co To comply with European CLP Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878, US 29CFR 1910.1200 OSHA's Hazard Communication Standard, and Australian NOHSC: 1008 [2004] and ADG Code 7.4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SYNONYMS: PART NUMBERS:	 Chip Quik Lead Free Solder Wire and Spheres Series: SMDSWLF, SMDSWLTLEP, SMD_NL, SMD20 Solder Spool, Solder Sticks, Solder Coil, Chip Quik Alloy, Removal Alloy, Rework Solder, Solder Spool, SMDSWLF, 020 10Z, SMDSWLF, 031 10Z, SMDSWLF, 021 11B, SMD2403, SMD2040, SMD2040, SMD2050, SMD2050, SMD2050, SMD2055, SS000, SMD2040, SMD2040, SMD2040-S5000, SMD2050, SMD2050, SMD2055, SS000, SMD2040, SMD29WLF, 020 11B, SMD2SWLF, 031 11B, SMD2SWLF, 015 10Z, SMDSWLF, 020 80Z, SMDSWLF, 031 80Z, SMDSWLF, 015 10Z, SMD2SWLF, 011 11B, SMD2SWLF, 031 80Z, SMD2SWLF, 031 80Z, SMD2SWLF, 015 10Z, RASWLF, 020 40Z, SMD2024, SMD2034, SM
MANUFACTURER: ADDRESS:	Chip Quik Inc. 931-3909 Witmer Rd., Niagara Falls, NY 14305 (USA) 3rd Floor, 207 Regent Street, London W1B 3HH (UK) 13 Adelaide Road, Dublin, Ireland, D02 P950 (EU) 8-1500 Sandhill Dr., Ancaster, ON L9G 4V5 (Canada) 42A Crimea Street, C/O A03886, Parramatta, NSW, 2150 (Australia)
PHONE: EMERGENCY PHONE:	(508) 477-2264 (800) 424-9300 (USA and Canada 24/7 CHEMTREC) +44 20 3868 7152 (UK and EU 24/7) +61 2 8607 7057 (Australia 24/7)
REVISION DATE: REVISION NUMBER: REVISED BY:	2025/04/17 7.7 Chip Quik Product Safety
PRODUCT USE:	Soldering components for bonding semiconductor chips and packages to circuit boards. Removal of semiconductor chips and packages from circuit boards.

2. HAZARD IDENTIFICATION

HMIS® RATING

NFPA® 704 CODES:

HEALTH:	0	
FLAMMABILTY:	0	
PHYSICAL HAZARD:	0	
PERSONAL PROTECTION:	0	

HMIS® and NFPA® Risk Ratings Legend: 0 (Low or None), 1 (Slight), 2 (Moderate), 3 (Serious), 4 (Severe)

Classified in accordance with European CLP Regulation 1272/2008

Acute Toxicity (oral)	4	H302		
Acute Toxicity (dermal)	4	H312		
Acute Toxicity (inhalation)	4	H332		
Eye Irritant	2	H319		
Skin Irritant	2	H315		
Skin Sensitization	1	H317		
Aquatic Acute	1	H400		
Aquatic Chronic	1	H410		
Specific Target Organ Toxi	city (STOT)	- Single Exposure (SE) Respiratory Tract Irritation	3	H335

CHEMICAL NAME:	NA
CHEMICAL FAMILY:	Mixture
CHEMICAL FORMULA:	Proprietary

ROUTES OF ENTRY:

Inhalation, Ingestion, Skin/Eye Contact

TARGET ORGANS:

NA



Signal Word: Warning

GHS/CLP LABEL ELEMENTS:

Hazard statement(s)	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapor/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.

Store locked up.

 P264
 If Case of infacequate ventation weat respiratory protection.

 P301/P330/P331/P310
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor.

 P303/P361/P352/P333/P313
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with soap & water. Get medical advice/attention if skin irritation or rash occurs or if you feel unwell.

 P304/P340/P312
 IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if

 P304/P340/P312

P304/P340/P312	IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if
	you feel unwell.
P305/P351/P338/P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing. Immediately call POISON CENTER/Doctor.
P308/P313	IF EXPOSED OR CONCERNED: Get medical advice/attention.
P342/P311	IF EXPERIENCING RESPIRATORY SYMPTOMS: Call POISON CENTER/Doctor.
P362	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P402/P404	Store in a dry place. Store in a closed container.

P405

POTENTIAL HEALTH EFFECTS (CHRONIC and OVEREXPOSURE)

Tin: Dust or fumes may cause irritation of the skin mucous membranes and may result in a benign Pneumoconiosis (Stannosis).

Silver: May cause discoloration of eyes and skin (Argyia).

Bismuth: May cause foul breath, a blue-black line on the gums, and Stomatitis.

Antimony: May cause gastrointestinal upset, sleeplessness, irritability, and muscular pain.

Indium: May cause weight loss, pulmonary edema, blood damage and degenerative changes in liver and kidneys.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems. Occupational Asthma.

SECTION 2 NOTES:

Chip Quik Inc. does not recommend, manufacture, market, or endorse any of its products for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classified in accordance with European CLP Regulation 1272/2008

Hazardous Ingredients ⁽¹⁾	C.A.S. Number	Weight Percent	OSHA PEL mg/m ³	ACGIH TLV TWA mg/m ³	LD 50 Ingested g/Kg	LD 50 Inhaled g/m ³
Modified Rosins (Rosin) (2)	8050-09-7	<45	NE	NĒ	NE	NE
Pine Oil Derivatives (Terpineol)	8000-41-7	<5	NE	NE	NE	NE
Mixed Carboxylic Acids (Maleic Acid) ⁽²⁾	110-16-7	<4	NE	NE	NE	NE
Tin	7440-31-5	Product contains	2.00	2.00	NE	NE
Silver	7440-22-4	one or more of	0.01	0.10	NE	NE
Bismuth	7440-69-9	these metallic	NE	NE	NE	NE
Indium	7440-74-6	elements in	NE	0.10	NE	NE
Copper	7440-50-8	varying percentages	1.00	1.00	NE	NE

Non-Hazardous Ingredients	C.A.S. Number	Weight Percent	OSHA PEL	ACGIH TLV TWA	LD 50 Ingested	LD 50 Inhaled
_		-	mg/m ³	mg/m ³	g/Kg	g/m³
Surfactants	NA	<4	NE	NE	NE	NE
Rheological Modifier	NA	<5	NE	NE	NE	NE

SECTION 3 NOTES:

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components, which comprise 1% of the mixture (0.1% carcinogenic), are listed. Percentages of individual components are not listed as this information is considered a trade secret.

(2) The identity of the specific chemical(s) is being withheld as a trade secret per 29 CFR 1910.1200. The hazardous properties of these ingredients are disclosed in this SDS.

4. FIRST-AID MEASURES

Signs and symptoms of exposure: Inhalation-Nose and throat irritation, headache, dizziness, difficulty breathing, coughing. Ingestion-nausea, vomiting, cramps. Skin-redness, burning, rash, dryness. Eye-redness, burning, tearing, blurred vision.

Emergency first aid procedures:

EYES: Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

SKIN: Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

INGESTION: Call a physician or Poison Control Center immediately. Do not induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person

INHALATION: Remove to fresh air. Support respiration if required. If not breathing, seek immediate medical attention.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Dry chemical, foam
SPECIAL FIRE FIGHTING PROCEDURES:	Do not use water. Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	May release Toxic metal and oxide fumes. High concentrations of dust may present explosion hazard. Water trapped below molten metal may explode thus spattering molten metal.

SECTION 5 NOTES:

Molten solder alloys consisting of Antimony, Bismuth, Copper, Indium, Silver, and/or Tin do not produce significant quantities of fumes below 900° F.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT: Material is extremely thick and will not flow out.

ACCIDENTAL RELEASE MEASURES: If material spills or leaks use a spatula to collect and place it in a plastic or glass jar. Remove traces of residue using cloth rags or paper towels moistened with Isopropyl Alcohol. Exposure to spilled material may be irritating. Follow on-site personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Collect spillage.

SECTION 6 NOTES:

See Sections 2, 4, and 7 for additional information.

7. HANDLING AND STORAGE

HANDLING/STORAGE: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes or dust. Avoid contact with eyes, skin, and clothing. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Wear appropriate personal protective equipment when working with or handling. Always wash hands thoroughly after handling this product. Dispose of following Federal, State/Provincial, and Local regulations.

OTHER PRECAUTIONS: Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

SECTION 7 NOTES: Keep out of reach of children. Not for internal consumption.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit Values:

Rosin flux fumes (as total resin acids) MEL: 0.05 mg/m³ 8h TWA. MEL: 0.15 mg/m³ 15 min. PEL (Canada): Canada AB: Not established, Canada BC: (L), Canada ON: (L), Canada QC: Not established STEL (Canada): Not established

Extraction is necessary to remove fumes evolved during reflow.

Also see section 3.

ENGINEERING CONTROLS: Use only with production equipment designed for use with solder wire.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLVs.

RESPIRATORY PROTECTION: A (US: NIOSH; EU: EN 140:1998, EN 14387:2004 A)-approved air-purifying respirator with fume/organic chemical cartridge should be worn when airborne concentrations may be exceeded. General and local exhaust ventilation is the preferred means of protection.

EYE PROTECTION: Use with appropriate eye protection: Goggles or face shield (EU: EN 166-S 3 9).

SKIN PROTECTION: Protective gloves should be worn when the possibility of skin contact exists (EU: EN 374-1:2003).

PROTECTIVE CLOTHING OR EQUIPMENT: Work clothes should be worn and laundered in accordance with current Lead (Pb) standards (US: OSHA).

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in areas where solder products may be used. Always wash hands after handling soldering products and before applying or using cosmetics/food/drink/tobacco.

OTHER: Maintain eye wash stations in work areas. Avoid the use of contact lenses in high fume areas. Clean protective equipment regularly. Clean up spills immediately.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR: ODOR THRESHOLD: pH as SUPPLIED: MELTING POINT: INITIAL BOILING POINT: BOILING RANGE: FLASH POINT: EVAPORATION RATE: FLAMMABILITY (solid): UPPER/LOWER FLAMMABILITY: UPPER/LOWER EXPLOSIVE LIMITS: VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR = 1): RELATIVE DENSITY: SOLUBILITY IN WATER.	Silver Grey Solid Odorless NE NA Varies Varies Varies NA NA NA NE NE NE NA NA NA NA NA NA NA
RELATIVE DENSITY: SOLUBILITY IN WATER: PARTITION COEFFICIENT (n-octanol/water):	NE Insoluble NE

AUTOIGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
VISCOSITY:	NA

9.2 Other Information
9.2.1 Information with regard to physical hazard classes
No additional information available.
9.2.2 Other safety characteristics
No additional information available.

SECTION 9 NOTES:

Other physical and chemical properties depend on alloy composition.

10. STABILITY AND REACTIVITY

STABILITY: CONDITIONS TO AVOID (STABILITY): INCOMPATIBILITY (MATERIAL TO AVOID): HAZARDOUS DECOMPOSITION/BY-PRODUCTS: POSSIBILITY OF HAZARDOUS REACTIONS:

Stable NE Oxidizing materials, acids, hydrogen peroxide, bases Harmful organic fumes and toxic oxide fumes may form at elevated temperatures. NF

11. TOXICOLOGICAL INFORMATION

INHALATION:

This product does not present a risk at ambient temperatures. The flux fumes evolved during soldering will irritate the nose, throat and lungs. Repeated or prolonged exposure to flux fumes may cause an allergic affect which may lead to occupational asthma.

SKIN:

Contact with flux fumes and flux residues may cause irritation and sensitization.

EYES:

Flux fumes may cause irritation.

ACUTE TOXICITY:

Product/Ingredient Name	Result	Species	Dose	Exposure
Rosin	LD50 Oral	Rat	7600 mg/kg	-
Terpineol	LD50 Oral	Rat	2000 mg/kg	-
	LD50 Inhalation	Rat	4.76 mg/l	4 hours
	LD50 Dermal	Rat	2000 mg/kg	-
Maleic acid	LD50 Oral	Rat	708 mg/kg	Remarks: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Muscle weakness. Gastrointestinal: Ulceration or bleeding from stomach.
	LD50 Inhalation	Rat	720 mg/m ³	1 hour
	LD 50 Dermal	Rabbit	1560 mg//kg	Remarks: Behavioral:
				Tremor

SKIN CORRISION/IRRITATION: SERIOUS EYE DAMAGE/IRRITATION:

Not available	
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NE

Product/Ingredient Name	Result	Species	Score	Exposure	Observation
Maleic acid	Eyes – Severe Irritant	Rabbit	-	2 minutes 1 percent	-

SERM CELL MUTAGENICITY: CARCINOGENICITY:	Not available		
OSHA: N/A	ACGIH: N/A	NTP: N/A	IARC: N/A
REPRODUCTIVE TOXICITY: STOT-SINGLE EXPOSURE:	Not available		
Product/Ingredient Name	Category	Route of exposure	Target organs

STOT-REPEATED EXPOSURE: ASPIRATION HAZARD:

11.2 Information on other hazards:

11.2.1 Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SECTION 11 NOTES:

This product has not been tested as a whole to determine its hazards. Synergistic or additive effects of the above chemicals are unknown, as are the effects of exposure to these chemicals in addition to others present in the work place. See Section 2 for additional health hazards.

12. ECOLOGICAL INFORMATION

TOXICITY:

Product/Ingredient Name	Result	Species	Exposure
Silver	Acute EC50 1.4 µg/l Marine water	Algae - Chroomonas sp.	4 days
	Acute EC50 0.24 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 11 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		reticulata	
	Acute LC50 2.13 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 5 mg/l Marine water	Algae - Glenodinium halli	72 hours
Rosin	Acute LC50 60.3 mg/l Fresh water	Brachydanio rerio (zebra fish)	96 hours
Terpineol	Acute LC50 62.80 mg/l Fresh water	Danio rerio (zebra fish)	96 hours
	Acute LC50 68 mg/l Marine water	Algae – Pseudokirchneriella	72 hours
		subcapitata (green algae)	
Maleic acid	Acute EC50 316200 µg/l Fresh	Daphnia - Daphnia magna -	48 hours
	water	Larvae	
	Acute LC50 5000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 µg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling,	48 hours
		Weanling)	
	Acute IC50 13 µg/I Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential	
		growth phase	
	Acute IC50 5.4 mg/I Marine water	Aquatic plants - Plantae -	72 hours
		Exponential growth phase	
	Acute LC50 0.072 µg/l Marine	Crustaceans - Amphipoda -	48 hours
	water	Adult	00 h
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni -	96 hours
	Chronic NOEC 2 E ug/l Morine	Adult	72 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium -	72 hours
	Chronic NOEC 7 mg/l Fresh water	Exponential growth phase Aquatic plants - Ceratophyllum	3 days
	Chionic NOEC / high Fresh water	demersum	5 days
	Chronic NOEC 0.02 mg/l Fresh	Crustaceans - Cambarus	21 days
	water	bartonii - Mature	21 4490
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.8 µg/l Fresh	Fish - Oreochromis niloticus -	6 weeks
	water	Juvenile (Fledgling, Hatchling,	
		Weanling)	

PERSISTENCE AND DEGRADIBILITY: BIOACCUMULATIVE POTENTIAL:

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Silver	-	70	Low
Rosin	1.9 to 7.7	-	High
Terpineol			NE
Maleic acid	-1.3	-	Low

MOBILITY IN SOIL: RESULT OF PBT and vPvB ASSESSMENT: 12.6 Endocrine Disrupting Properties:

NE

Not applicable The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher No known significant effects or critical hazards

12.7 OTHER ADVERSE EFFECTS:

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Scrap and waste should be recycled or stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

OTHER PRECAUTIONS: Avoid skin & eye contact, inhalation & ingestion of fumes and material. Wash contaminated clothing before reuse. Keep away from children.

14. TRANSPORT INFORMATION

Product contains no components that are above dangerous goods toxic thresholds and therefore is not regulated for transport.

Transport in accordance with applicable regulations and requirements.

UN	Number:
UN	Proper Shipping Name:

Not available Not available

Packaging Group: Not applicable **Environmental Hazards:** None TRANSPORT HAZARD CLASSES: US DOT Hazardous Material Classification: Non-Hazardous Water Transportation: Non-Hazardous IATA Hazardous Material Classification: Non-Hazardous ADR Road Regulations Not regulated IMDG Sea Regulations Not regulated ADG Land Transportation Not regulated **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 (TSCA) Inventory. TSCA 12 (b) Export Notification: Not required. **Canada Regulatory Information:** CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List **U.S. FEDERAL REGULATIONS:** Not regulated STATE REGULATIONS: Not regulated Not regulated INTERNATIONAL REGULATIONS: **AUSTRALIAN REGULATIONS:** Not regulated CANADA:

Domestic Substance List (DSL) / Non-Domestic Substance List (NDSL): Hazardous Products Act (R.S.C., 1985, c. H-3): All hazardous ingredients are listed on the DSL. The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

16. OTHER INFORMATION

LEGEND:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods Code
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
BCF	Bioconcentration factor
C.A.S.	Chemical Abstract Service
CLP	Classification, Labeling and Packaging
DOT	Department of Transportation
DSL	Domestic Substance List
EC	Effective Concentration
EPA	Environmental Protection Agency
GHS	Global Harmonized System
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal Concentration
LD	Lethal Dose
NA	Not available
NDSL	Non-Domestic Substance List
NE	Not established
NIOSH	National Institute for Occupational Safety & Health
NOEC	No observed effective concentration
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
Pow	Octanol water partition coefficient
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT TLV	Specific target organ toxicity Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
US DOT	United States Department of Transportation
WHMIS	Workplace Hazardous Materials Information System
	workplace hazaruous materiais inicitiation system

PREPARATION INFORMATION:

This update supersedes all previously released documents.

DISCLAIMER:

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to Chip Quik at the time of issue. No warranty, guarantee, or representation is made by Chip Quik nor does Chip Quik assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under

particular or exceptional conditions or circumstances. The data on this Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

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