CHIPQUIK® Lead Free Solder Paste

Safety Data Sheet (SDS)

www.chipquik.com

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: Chip Quik Lead Free Solder Paste Series: SMD291SNL, SMD4300SNL, SMDLTLFP, SMD4300LTLFP, TS391SNL, TS391LT, NC191SNL, NC191LT, NC191LTA, RMA591SNL, RMA591LT, RMA591L0SNL, RMA591L0LT, CQ100Ge

SYNONYMS: Paste, Solder Cream

PART NUMBERS: SMD291SNL, SMD291SNL10, SMD291SNL10T4, SMD291SNL10T5, SMD291SNL50T3, SMD291SNL250T3, SMD291SNL250T4, SMD291SNL250T5, SMD291SNL500T3, SMD291SNL500T5, SMD291SNL15T4, SMD291SNL60T4, SMD4300SNL10, SMD4300SNL10T4, SMD4300SNL10T5, SMD4300SNL250T3, SMD4300SNL250T4, SMD4300SNL250T5, SMDLTLFP, SMDLTLFP10, SMDLTLFP10T4, SMDLTLFP10T5, SMDLTLFP50T3, SMDLTLFP250T3, SMDLTLFP250T4, SMDLTLFP250T5, SMDLTLFP500T3, SMDLTLFP15T4, SMDLTLFP60T4, LTLFP_10G, SMDTCLF, SMD291SNL500T3C, SMD291SNL500T4C, SMD291SNL500T5C, SMD4300SNL500T3C, SMD4300SNL500T4C, SMD4300SNL500T5C, SMDLTLFP500T3C, SMDLTLFP500T4C, SMDLTLFP500T5C, TS391SNL, TS391SNL10, TS391SNL50, TS391SNL250, TS391SNL500C, TS391LT, TS391LT10, TS391LT50, TS391LT250, TS391LT500C, SMD4300LTLFP10T4, SMD4300LTLFP250T4, SMD291SNLT4, SMD291SNLT5, SMDLTLFPT4, SMDLTLFPT5, SMD291SNL500T4, CQ100Ge 35g, CQ100Ge 250g, SMD291SNLT6, SMD291SNL50T6, NC191LT10, NC191LT15, NC191LT35, NC191LT50, NC191LT250, NC191LT15T5, NC191LT35T5, NC191LT50T5, NC191LT250T5, NC191SNL15, NC191SNL35, NC191SNL50, NC191SNL250, NC191SNL15T5, NC191SNL35T5, NC191SNL50T5, NC191SNL250T5, SMD291SNLT7, SMD291SNL40T7, NC191LTA10, NC191LTA15, NC191LTA35, NC191LTA50, NC191LTA250, NC191LTA15T5, NC191LTA35T5, NC191LTA50T5, NC191LTA250T5, NC191LT500C, NC191LT500T5C, NC191SNL500C, NC191SNL500T5C, NC191LTA500C, NC191LTA500T5C, TS991SNL500T3, TS991SNL500T4, WS991SNL500T4, WS991LT500T4, TS991SNL35T3, TS991SNL35T4, WS991SNL35T4, WS991LT35T4, SMD291SNL10T6, RMA591SNL, RMA591SNL10, RMA591SNL250, RMA591SNL500C, RMA591SNL50, RMA591LT, RMA591LT10, RMA591LT250, RMA591LT500C, RMA591LT50, NI3300LTLFP15T3, NI3300LTLFP60T3, NI3300SNL15T3, NI3300SNL60T3, RMA591L0SNL, RMA591L0SNL10, RMA591L0SNL250, RMA591L0SNL500C, RMA591L0SNL50, RMA591L0LT, RMA591L0LT10, RMA591L0LT250, RMA591L0LT500C, RMA591L0LT50, NI3300LTLFP250T3, NI3300SNL250T3, SMDLTLFP250T4-2MIX, SMD291SNL250T4-2MIX, SMDLTLFP10T5-67METAL-LT291, JET551SNL10T5, JET551SNL30T5, JET551LT10T5, JET551LT30T5, SMDLTB35T4, SMDLTB250T4, WS991SNL50T4, WS991LT50T4, WS991LT500T4C, SMDLTLFPT6, SMDLTLFP50T6, SMD291SAC405-35T3, SMD291SAC405-250T3, SMD291SAC405-500T3, SMDAU80SN20T5-5G, SMD291SNL250T6, SMD4300SNL30T4, SMDLTLFP500T5, TS991SNL500T4C, WS430SNL500T4C, TS991LT500T4C, WS430LT500T4C, CQ100Ge 35g-80METAL, SMD291SNLT6-95METAL, SMDLTLFPT6-95METAL, SMD291SNLT5-95METAL, SMDLTLFPT5-95METAL

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REVISION DATE: 2025/12/15

REVISION NUMBER: 7.9

REVISED BY: Chip Quik Product Safety

PRODUCT USE: Soldering components for bonding semiconductor chips and packages to circuit boards.

2. HAZARD IDENTIFICATION

HMIS® RATING

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

NFPA® 704 CODES:



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 Toxicity (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

GHS/CLP:



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.
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 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	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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	NE	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 one or more of these metallic elements in varying percentages	2.00	2.00	NE	NE
Gold	7440-57-5		NE	NE	NE	NE
Silver	7440-22-4		0.01	0.10	NE	NE
Bismuth	7440-69-9		NE	NE	NE	NE
Antimony	7440-36-0		0.50	0.50	7.0 Rat	NE
Indium	7440-74-6		NE	0.10	NE	NE
Copper	7440-50-8		1.00	1.00	NE	NE

Non-Hazardous Ingredients	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
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/m^3 8h TWA.
MEL: 0.15 mg/m^3 15 min.

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 paste.

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). Recommend gloves: latex or nitrile disposable.

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

COLOR (APPEARANCE):	Grey paste
ODOR:	Odorless
ODOR THRESHOLD:	NE
pH as SUPPLIED:	NA
MELTING POINT:	Varies
FREEZING POINT:	Varies
INITIAL BOILING POINT:	Varies
BOILING RANGE:	NA
FLASH POINT:	NA
EVAPORATION RATE:	NA
FLAMMABILITY (solid):	NE
UPPER/LOWER FLAMMABILITY:	NE
UPPER/LOWER EXPLOSIVE LIMITS:	NE
VAPOR PRESSURE (mmHg):	NA
VAPOR DENSITY (AIR = 1):	NA
RELATIVE DENSITY:	NE
SOLUBILITY IN WATER:	Insoluble
PARTITION COEFFICIENT (n-octanol/water):	NE
AUTOIGNITION TEMPERATURE:	NE
DECOMPOSITION TEMPERATURE:	NE
VISCOSITY:	NA
Volatile Organic Compounds (VOC):	84g/L to 127g/L

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: Stable
CONDITIONS TO AVOID (STABILITY): NE
INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing materials, acids, hydrogen peroxide, bases
HAZARDOUS DECOMPOSITION/BY-PRODUCTS: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
POSSIBILITY OF HAZARDOUS REACTIONS: NE

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.

Health Hazards (acute and chronic): Contact with dust and fumes may cause skin, eye and respiratory irritation. Ingestion and/or inhalation of material or fumes may result in 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 and ingestion, may result in kidney, red blood cell, reproductive and 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.

ACUTE TOXICITY:

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

SKIN CORRISION/IRRITATION: NE
SERIOUS EYE DAMAGE/IRRITATION: NA
RESPIRATORY OR SKIN SENSITIZATION: NE
GERM CELL MUTAGENICITY: NA
CARCINOGENICITY:

OSHA: NA	**ACGIH:** NA	**NTP:** NA	**IARC:** NA

REPRODUCTIVE TOXICITY: NA
STOT-SINGLE EXPOSURE:

Product/Ingredient Name	Category	Route of exposure	Target organs
Maleic acid	Category 3	Not applicable	Respiratory tract irritation

STOT-REPEATED EXPOSURE: NA
ASPIRATION HAZARD: NA

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 Acute EC50 0.24 µg/l Fresh water Acute LC50 11 µg/l Fresh water	Algae - Chroomonas sp. Daphnia - Daphnia magna Crustaceans - Ceriodaphnia reticulata	4 days 48 hours 48 hours

	Acute LC50 2.13 µg/l Fresh water Chronic NOEC 5 mg/l Marine water	Fish - Pimephales promelas Algae - Glenodinium halli	96 hours 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 Acute LC50 68 mg/l Marine water	Danio rerio (zebra fish) Algae – Pseudokirchneriella subcapitata (green algae)	96 hours 72 hours
Maleic acid	Acute EC50 316200 µg/l Fresh water Acute LC50 5000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae Fish - Pimephales promelas	48 hours 96 hours
Copper	Acute EC50 1100 µg/l Fresh water Acute EC50 2.1 µg/l Fresh water Acute IC50 13 µg/l Fresh water Acute IC50 5.4 mg/l Marine water Acute LC50 0.072 µg/l Marine water Acute LC50 7.56 µg/l Marine water Chronic NOEC 2.5 µg/l Marine water Chronic NOEC 7 mg/l Fresh water Chronic NOEC 0.02 mg/l Fresh water Chronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling) Algae - Pseudokirchneriella subcapitata - Exponential growth phase Aquatic plants - Plantae - Exponential growth phase Crustaceans - Amphipoda - Adult Fish - Periophthalmus waltoni - Adult Algae - Nitzschia closterium - Exponential growth phase Aquatic plants - Ceratophyllum demersum Crustaceans - Cambarus bartonii - Mature Daphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	4 days 48 hours 72 hours 72 hours 48 hours 96 hours 72 hours 3 days 21 days 21 days 6 weeks

PERSISTENCE AND DEGRADIBILITY: NE

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: NE

RESULT OF PBT and vPvB ASSESSMENT: Not applicable

12.6 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

12.7 OTHER ADVERSE EFFECTS: No known significant effects or critical hazards

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: Not available
UN Proper Shipping Name: 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
INTERNATIONAL REGULATIONS:	Not regulated
AUSTRALIAN REGULATIONS:	Not regulated

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
EC	Effective Concentration
EPA	Environmental Protection Agency
GHS	Global Harmonized System
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal Concentration
LD	Lethal Dose
NA	Not available
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
P_{ow}	Octanol water partition coefficient
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT	Specific target organ toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA:	Time Weighted Average
US DOT:	United States Department of Transportation

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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