1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Chip Quik Lead Free Solder Wire and Spheres Series: SMDSWL, SMDSWLTLFP, SM_NL, SMD02
SYNONYMS: Solder Spool, Solder Sticks, Solder Coil, Chip Quik Alloy, Removal Alloy, Rework Solder, Solder Spheres
PART NUMBERS:

- SMD1NL, SMD4.5NL, SMD9NL, SMD16NL, SMD32NL, SMD32NLS, SMD2ENL, SMD6000, SMDSWL.020 1OZ, SMDSWL.031 1OZ, SMDSWL.020 2OZ, SMDSWL.031 2OZ, SMDSWL.020 4OZ, SMDSWL.031 4OZ, SMDSWLTLFP32, SMD2040, SMDSWLTLFP2500, SMDSWLTLFP5000, SMDSWLTLFP2000, SMDSWLTLFP15OZ, SMDSWLTLFP30OZ, SMDSWLTLFP60OZ, SMDSWLTLFP20OZ, SMDSWLTLFP40OZ, SMDSWLTLFP80OZ, SMDSWLTLFP15OZ, SMDSWLTLFP30OZ, SMDSWLTLFP60OZ

MANUFACTURER: Chip Quik Inc.
ADDRESS: 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)
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- 42A Crimeea Street, C/O A03886, Parramatta, NSW, 2150 (Australia)

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: 2023/11/01
REVISION NUMBER: 6.5
REVISED BY: 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

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA 704 CODES:

- HEALTH: 0
- FLAMMABILITY: 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)
Acute Toxicity  4  
Skin Irritant  2  
Skin Sensitization  1  

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.  
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.  

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/P311/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/P340/312  IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305/P351/338/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).  
Antimony:  May cause foul breath, a blue-black line on the gums, and Stomatitis.  
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
<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>C.A.S. Number</th>
<th>Weight Percent</th>
<th>OSHA PEL mg/m³</th>
<th>ACGIH TLV TWA mg/m³</th>
<th>LD 50 Ingested g/Kg</th>
<th>LD 50 Inhaled g/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Rosins (Rosin)</td>
<td>8050-09-7</td>
<td>&lt;45</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Pine Oil Derivatives (Terpineol)</td>
<td>8000-41-7</td>
<td>&lt;5</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Mixed Carboxylic Acids (Maleic Acid)</td>
<td>110-16-7</td>
<td>&lt;4</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>Product contains one or more of these metallic elements in varying percentages</td>
<td>2.00</td>
<td>2.00</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td></td>
<td>0.01</td>
<td>0.10</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Bismuth</td>
<td>7440-69-9</td>
<td></td>
<td>NE</td>
<td>0.10</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Indium</td>
<td>7440-74-6</td>
<td></td>
<td>NE</td>
<td>1.00</td>
<td>1.00</td>
<td>NE</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Hazardous Ingredients</th>
<th>C.A.S. Number</th>
<th>Weight Percent</th>
<th>OSHA PEL mg/m³</th>
<th>ACGIH TLV TWA mg/m³</th>
<th>LD 50 Ingested g/Kg</th>
<th>LD 50 Inhaled g/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfactants</td>
<td>NA</td>
<td>&lt;4</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
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<tr>
<td>Rheological Modifier</td>
<td>NA</td>
<td>&lt;5</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

**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: Silver Grey Solid
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
VISCOSSITY: 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: 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 effect 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:

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosin</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>7600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Terpineol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Inhalation</td>
<td>Rat</td>
<td>4.76 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Maleic acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>708 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Inhalation</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD 50 Dermal</td>
<td>Rabbit</td>
<td>720 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1560 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

SKIN CORROSION/IRRITATION: Not available

SERIOUS EYE DAMAGE/IRRITATION:

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maleic acid</td>
<td>Eyes – Severe Irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>2 minutes 1 percent</td>
<td>-</td>
</tr>
</tbody>
</table>

REPRODUCTIVE TOXICITY: Not available

STOT-SINGLE EXPOSURE:

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maleic acid</td>
<td>Category 3</td>
<td>Not applicable</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

STOT-REPEATED EXPOSURE: NE

ASPIRATION HAZARD: NE

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:

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>Acute EC50 1.4 μg/l Marine water</td>
<td>Algae - Chroomonas sp.</td>
<td>4 days</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.24 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 11 μg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia reticulata</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2.13 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 5 mg/l Marine water</td>
<td>Algae - Glenodinium halli</td>
<td>72 hours</td>
</tr>
<tr>
<td>Rosin</td>
<td>Acute LC50 60.3 mg/l Fresh water</td>
<td>Brachydianio rerio (zebra fish)</td>
<td>96 hours</td>
</tr>
<tr>
<td>Terpineol</td>
<td>Acute LC50 62.80 mg/l Fresh water</td>
<td>Danio rerio (zebra fish)</td>
<td>96 hours</td>
</tr>
<tr>
<td>Product/Ingredient Name</td>
<td>LogP \text{aw}</td>
<td>BCF</td>
<td>Potential</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
<td>-----</td>
<td>-----------</td>
</tr>
<tr>
<td>Silver</td>
<td>-</td>
<td>70</td>
<td>Low</td>
</tr>
<tr>
<td>Rosin</td>
<td>1.9 to 7.7</td>
<td>-</td>
<td>High</td>
</tr>
<tr>
<td>Terpineol</td>
<td>-1.3</td>
<td>-</td>
<td>NE</td>
</tr>
<tr>
<td>Maleic acid</td>
<td>-1.3</td>
<td>-</td>
<td>Low</td>
</tr>
</tbody>
</table>

**PERSISTENCE AND DEGRADIBILITY:**

**BIOACCUMULATIVE POTENTIAL:**

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>LogP \text{aw}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>-</td>
<td>70</td>
<td>Low</td>
</tr>
<tr>
<td>Rosin</td>
<td>1.9 to 7.7</td>
<td>-</td>
<td>High</td>
</tr>
<tr>
<td>Terpineol</td>
<td>-1.3</td>
<td>-</td>
<td>NE</td>
</tr>
<tr>
<td>Maleic acid</td>
<td>-1.3</td>
<td>-</td>
<td>Low</td>
</tr>
</tbody>
</table>

**MOBILITY IN SOIL:**

**RESULT OF PBT and vPvB ASSESSMENT:**

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**

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**

All ingredients used to manufacture this product are listed on the EPA TSCA Inventory. Finished product is not listed on the EPA TSCA Inventory.

**U.S. FEDERAL REGULATIONS:** Not regulated
**STATE REGULATIONS:** Not regulated
**INTERNATIONAL REGULATIONS:** Not regulated
**AUSTRALIAN REGULATIONS:** Not regulated
CANADA:
Domestic Substance List (DSL) / Non-Domestic Substance List (NDSL): All hazardous ingredients are listed on the DSL.

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
IATA 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
P\textsubscript{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
WHMIS Workplace Hazardous Materials Information System

PREPARATION INFORMATION:
This update supersedes all previously released documents.

DISCLAIMER:
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