*** Section 1 - Product and Company Identification ***

Material Name: Scrap Metal
Trade Name and/or synonyms:
Scrap ferrous and non-ferrous metals; Steel (iron, chromium, nickel), Copper, Motors (aluminum, cast iron, copper, steel), Brass (copper, zinc, lead), Cast Iron (iron, cryolite, aluminum), Bronze (copper, tin), Aluminum (turnings, borings, scalping, splatters, chips, recycled scrap ingot)
Recommended use:
Recycling

MANUFACTURER INFORMATION
TST, INC.
Timco Division, Standard Metals Division, and Tandem Division, ALPASE Division
11601 Etiwanda Avenue, Fontana, CA 92337
Emergency telephone number: (951) 727-3199

*** Section 2 - Hazards Identification ***

General Hazard Statement: Non combustible as supplied. Small chips, fines, turning, and dust from processing may be readily ignitable. Explosion/fire hazards may be present when dust or fines are dispersed in air, chips, dust, or fines are in contact with water, dust and fines are in contact with certain metal oxides (rust, copper oxide), or when molten metal is in contact with water/moisture or certain metal oxides (rust, copper oxide). Dust and fumes from processing can cause irritation to eyes, skin, respiratory tract, and may cause allergic reaction. Acute overexposure can cause metal fume fever (nausea, fever, chills, shortness of breath, malaise).

GHS CLASSIFICATION:
Hazardous to the aquatic environment, long term hazard – Category 3
Skin corrosion/irritation - Category 2
Reproductive toxicity - Category 2
Carcinogenicity - Category 2
Sensitization, respiratory - Category 1
Sensitization, skin - Category 1
Specific target organ toxicity, repeated exposure (inhalation) - Category 1 (respiratory tract)

OSHA DEFINED HAZARDS:
Combustible Dust

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
Danger
Hazard Statement(s):
In contact with water releases flammable and/or toxic gases.
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer by inhalation.
May damage fertility or the unborn child.
May cause harm to breastfed children.
Causes damage to organs through prolonged or repeated exposure and/or inhalation.
Harmful to aquatic life with long lasting effects.
May form combustible dust concentrations in air.

Precautionary Statement(s):

Prevention
P201: Obtain special instructions before use.
P202: Do not handle until all safety instructions have been read and understood.
P232: Protect from moisture.
P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: In case of inadequate ventilation, wear respiratory protection.
P272: Contaminated work clothing should not be allowed out of the workplace.
P263: Avoid contact during pregnancy/while nursing.
P264: Wash thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P273: Avoid release to environment

Response
P370: In case of fire: Use Class D agent to extinguish.
P305: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.
P304: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.
P302: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
P308: If exposed or concerned: Get medical advice/attention.

Storage
P402: Store in a dry place. Protect from moisture, especially in enclosed areas.

Disposal
P501: Dispose of contents/container in accordance with local/regional/national/international regulations
### *** Section 3 - Composition/Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent Content</th>
<th>ACGIH</th>
<th>OSHA</th>
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<tr>
<td>7429-90-5</td>
<td>Aluminum</td>
<td>Varies</td>
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<td>5</td>
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<tr>
<td>7440-21-3</td>
<td>Silicon</td>
<td>Varies</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper</td>
<td>Varies</td>
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<td>Varies</td>
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<td>10</td>
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<tr>
<td>7439-95-4</td>
<td>Magnesium</td>
<td>Varies</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>7440-02-0</td>
<td>Nickel</td>
<td>Varies</td>
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<td>-</td>
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<td>Varies</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7439-96-5</td>
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<td>Varies</td>
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<td>-</td>
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<td>Varies</td>
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<td>-</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>Aluminum Oxide (non-fibrous)</td>
<td>Varies</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

Exact composition will vary. Percentages of each constituent will vary with the alloy blend. Unless the alloy blend or additional information is known, processor should assume that all potential ingredients are present. Additional compounds that may form during processing are listed in Section 8. Exposure Limits are in TWA in mg/m$^3$.

* Fume concentrations TWA; dusts and mists, as Cu: 1 mg/m$^3$.
** Fume, as Cu: 0.1 mg/m$^3$ TWA; dusts and mists, as Cu: 1 mg/m$^3$ TWA

### *** Section 4 - First-Aid Measures ***

**First Aid: Eyes**
Flush with tepid water for at least 20 minutes holding the eyelids wide open. Seek medical attention if irritation develops.

**First Aid: Skin**
Wash thoroughly with mild soap and water for at least 15 minutes. Seek medical attention if irritation develops. Remove any contaminated clothing and launder thoroughly before reuse.

**First Aid: Inhalation**
Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical Attention.

**First Aid: Ingestion**
Not expected to be an important route of entry into the body. If large amounts of product are ingested, seek medical attention and advise physician.

**First Aid: Notes to Physician**
May cause sensitization of susceptible persons. Treat symptomatically.
*** Section 5 - Fire-Fighting Measures ***

General Fire Hazards:  
This product does not present fire or explosion hazards as shipped. Small chips, turnings, dust or fines from processing may ignite readily.

Specific Hazards:  
Dust or fines dispersed in the air can be explosive. Even minor dust clouds are potentially dangerous. Chips, dust or fines in contact with water can generate flammable/explosive hydrogen gas. Hydrogen gas in a confined space or poorly ventilated space could present an explosion hazard. Fines and dust in contact with certain metal oxides (i.e. Rust). Thermit reactions can be initiated easily by weak ignition sources. Molten metal in contact with water/moisture or other metal oxides. Moisture entrapped by molten metal can be explosive. Contact of molten aluminum with other metal oxides can initiate a thermite reaction.

Extinguishing Media:  
Use coarse water spray on chips and fines. Use Class D extinguishing agents on dusts, fines or molten metal. Apply extinguishing media carefully to avoid creating airborne dust.

Unsuitable Extinguishing Media:  
DO NOT USE: Halogenated agents on small chips, dusts or fines. DO NOT USE: water for extinguishing fires involving molten metal. These extinguishing agents will react with burning material.

Fire Fighting Equipment/Instructions:  
Fire Fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

*** Section 6 - Accidental Release Measures ***

Materials and Methods for Clean-Up:  
Avoid dust formation. Protect from water run-on, including precipitation. For dust or fines, pick up released product with appropriate implements and return to original container if reusable. If not reusable, place in appropriate containers for disposal. If material is molten, contain the flow using dry sand or salt flux as a dam. Do not use shovels or hand tools to handle the flow of molten metal. Allow the spill to cool and harden, then follow above.

Environmental Precautions:  
Prevent further leakage or spillage if it is safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Personal Precautions and Protective Equipment:  
Avoid generating dust. Avoid contact with skin and eyes. Avoid contact with sharp edges or hot metal. Avoid breathing dust/fumes/vapors/gas/mists/sprays. Ensure adequate ventilation. Appropriate personal protective equipment cited in Section 8 should be worn during all clean-up operations.
*** Section 7 - Handling and Storage ***

Handling:

Product should be kept dry. Avoid generating dust. Appropriate personal protective equipment cited in Section 8 should be worn during handling. Wet mopping or vacuuming is recommended to clean up dusts that may be generated during handling and processing. Avoid all ignition sources. Use non-sparking handling equipment. Provide grounding and bonding where necessary to prevent accumulation of static charges during aluminum dust handling and transfer operations. Good housekeeping practices must be maintained. Do not allow chips, fines, or dust to contact water, particularly in enclosed areas. Do not use compressed air to remove settled material from floors, beams, or equipment.

If processing of this product generates dust or fine particles, obtain and follow the safety procedures and equipment guides contained in Aluminum Association Bulletin F-1 and National Fire Protection Agency (NFPA) standards 484, 654, 70, and 77.

Local ventilation and vacuum systems must be designed to handle explosive dusts. Dry vacuums and electrostatic precipitators must not be used, unless specifically approved for use with flammable/explosive dusts. Dust collection systems must be dedicated to aluminum dust only and should be clearly labeled as such. Do not co-mingle fines of aluminum with fines of iron, iron oxide (rust) or other metal oxides.

Molten metal and water can be an explosive combination. The risk is greatest when there is sufficient molten metal to entrap or seal off the water. Water and other forms of contamination on or contained in scrap or remelt ingot are known to have caused explosions in melting operations. While the products may have minimal surface roughness and internal voids, there remains the possibility of moisture contamination or entrapment. If confined, even a few drops of water can lead to violent explosions.

All tooling, containers, molds and ladles which come in contact with molten metal must be preheated or specially coated, rust free and approved for such use. Any surfaces that may contact molten metal (e.g., concrete) should be specially coated. Drops of molten metal in water (e.g. from plasma arc cutting), while not normally an explosion hazard; can generate enough flammable hydrogen gas to present an explosion hazard. Vigorous circulation of the water and removal of the particles minimize the hazards.

During melting operations, the following minimum guidelines should be observed: Inspect all materials prior to furnace charging and completely remove surface contamination such as water, ice, snow, deposits of grease and oil or other surface contamination resulting from weather exposure, shipment, or storage; Store materials in dry, heated areas with any cracks or cavities pointed downwards.

Storage:

Keep containers tightly closed in a dry and well-ventilated area.

Incompatibilities:

*** Section 8 - Exposure Controls / Personal Protection ***

Engineering Controls:
For fume exposure, use with local exhaust ventilation to meet the exposure limits as listed in Section 2. If engineering controls fail to mitigate exposure to limits listed, use NIOSH approved respiratory protection. Use with adequate explosion-proof ventilation to meet the limits listed in Section 7.

Personal Protective Equipment: Respiratory
Dust and fumes from processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 2.

Personal Protective Equipment: Eyes
Use tight fitting goggles if excessive levels of dust are generated. Wear a full-face respirator, if needed. If molten: Goggles/face shield are recommended.

Personal Protective Equipment: Hands
The need for personal protective equipment (gloves) should be based upon a hazard assessment and recommendations from health / safety professionals. Wear appropriate gloves to avoid any skin injury. When material is heated, wear gloves to protect against thermal burns.

Personal Protective Equipment: Skin and Body
The need for personal protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals. Wear appropriate gloves and clothing to avoid direct skin contact. Contact with molten material can cause thermal burns. Flame retardant protective clothing is recommended.

Personal Protective Equipment: Hygiene Measures
Do not breathe vapors/dust. When using, do not eat, drink, or smoke. Provide regular cleaning of equipment, work area, and clothing. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink.

*** Section 9 - Physical and Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
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<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Freeze-Melt Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure (mm)</td>
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</tr>
<tr>
<td>Vapor Density (air = 1)</td>
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<tr>
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<tr>
<td>Specific Gravity/Bulk Density</td>
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</tr>
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<td>Evaporation Rate (Butyl Acetate=1)</td>
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</tr>
<tr>
<td>pH</td>
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<tr>
<td>Odor</td>
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<tr>
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<td>% Volatile by Volume</td>
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<td>Flash Point</td>
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<td>Upper Explosive Limit (UEL)</td>
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</tr>
<tr>
<td>Lower Explosive Limit (LEL)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
*** Section 10 - Stability and Reactivity ***

Chemical Stability:
Stable and non-reactive if handled and stored as directed.

Conditions to Avoid:
Small chunks, dust or fines and molten metal are considerably more reactive with the following:
Water: Slowly generates flammable/explosive hydrogen gas and heat. Generation rate is greatly increased with smaller particles (e.g., fines and dusts). Molten metal can react violently/explosively with water or moisture. Heat: Oxidizes at a rate dependent upon temperature and particle size.

Incompatible Materials:

Hazardous Decomposition Products:
No hazardous decomposition products are known.

*** Section 11 - Toxicological Information ***

Acute toxicity:
Component Analysis:

Aluminum (7429-90-5)
Oral LD50 Rat >2000 mg/kg

Aluminum Oxide (1344-28-1)
Oral LD50 Rat >5000 mg/kg

Nickel (7440-02-0)
Oral LD50 Rat >9000 mg/kg

Zinc (7440-66-6)
Oral LD50 Rat 630 mg/kg

Potential Health Effects: Skin Corrosion Property/ Stimulativeness
Non-corrosive. Causes severe irritation of eyes, skin and mucous membranes.

Potential Health Effects: Eye Critical Damage/ Stimulativeness
Dust and fume from processing: dust in the eyes causes severe eye irritation.

Potential Health Effects: Ingestion
May be harmful if swallowed. May cause additional affects as listed under "Inhalation".

Potential Health Effects: Inhalation
Dust and fumes from processing contain nickel. May produce allergic reaction.

Respiratory Organs Sensitization/ Skin Sensitization
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

General Cell Mutagenicity
Suspected of causing genetic defects.

Carcinogenicity
Dust and fume from processing can present cancer hazard (nickel).

A: General Product Information
May cause cancer.

B: Component Carcinogenicity
Aluminum (7429-90-5)
ACGIH: A5 - Not Suspected as a Human Carcinogen

Aluminum Oxide (1344-28-1)
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Nickel (7440-02-0)
ACGIH: A4 - Not Classifiable as a Human Carcinogen
NIOSH: Potential occupational carcinogen
NTP: Reasonably Anticipated to be a human carcinogen (possible select carcinogen)
IARC: Monograph 49 [1990]; Supplement 7 [1987] (Group 2b (possibly carcinogenic to humans))

Chromium (7440-47-3)
ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 49 [1990] (listed under chromium and chromium compounds); Supplement 7 [1987] (Group 3(not classifiable))

Magnesium Oxide (1309-96-5)
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Manganese (7439-96-5)
ACGIH: A4 - Not Classifiable as a Human Carcinogen

Reproductive Toxicity
Dust and fume from processing: Can present a reproductive hazard for males (Manganese).

Specified Target Organ General Toxicity: Single Exposure
Dust and fumes from processing: Respiratory tract irritation.

Specified Target Organ General Toxicity: Repeated Exposure
Causes damage to organs through prolonged or repeated exposure. Dust and fumes from processing:
Can cause reduction in the number of red blood cells, skin abnormalities, respiratory sensitization,
scarring of the lungs, central nervous system damage, secondary Parkinson’s disease and
reproductive harm in males.

*** Section 12 - Ecological Information ***

General Product Information
No data available for this product.

Persistence/Degradability
Not inherently biodegradable.

Bioaccumulation
This product does not contain any substances expected to be bioaccumulating.

Mobility in Soil
Not considered mobile.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made
according to local or governmental regulations.

Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.
*** Section 14 - Transport Information ***

ID Number: Not regulated
Proper Shipping Name: Not regulated
Hazard Class: Not regulated
Packing Group: Not regulated

DOT Specific Notes:
- Per United States transportation regulations 49 CFR 173.241(c), sift-proof, non-Department of Transportation specification, portable tanks suitable for transport of liquids (including totes) are authorized for Packing Group III solids in the domestic U.S.
- See Special Provision B115 for sift-proof, non-specification bulk packaging provisions in the U.S.
- Insert "RQ & Zinc & Nickel" reference when in packages greater than 2000 lbs. of pieces of metal having a diameter smaller than 100 micrometers (0.004 inches).
- Insert "RQ & Zinc & Nickel" reference when the Zinc & Nickel concentration by weight in the dross is greater than 20,000ppm (2%) and 2,000ppm (0.2%) respectively.
- In the U.S., loading and utilizing non-DOT specification integral gaskets, liners, non-structural additional packaging materials, bins, packagings, flexible bags, drums, etc. may be considered "non-structural additional packaging components" only if necessary to render a bulk packaging (e.g.: Trailer, rail car, bulk bin) a sift-proof closed vehicle. Shipping papers for units so loaded should reflect one unit(e.g.: 1-trailer, 1 rail car, etc), and not the number of packaging pieces or components utilized-even if an LTL or LCL. RQ's when applicable, are to be based on the net weight of the load. Marking, labeling and placarding rules are applicable to the vehicle and not the additional packaging components (RE: DOT May 2, 1994 interpretation).

*** Section 15 - Regulatory Information ***

US Federal Regulations

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals. All electrical equipment must be suitable for use in hazardous atmospheres involving aluminum powder in accordance with 29 CFR 1910.307. The National Electrical Code, NFPA 70, contains guidelines for determining the type and design of equipment and installation which will meet this requirement. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA HAZARDOUS SUBSTANCES: (40 CFR 302.4) See below.
TSCA STATUS: Not regulated.
SARA TITLE III: Section 311/312 Hazardous Categories: Immediate hazard, delayed hazard, reactivity hazard.

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

- **Aluminum (7429-90-5)**
  - SARA 313: Form R reporting required for 1.0% de minimis concentration (fume or dust only)
- **Aluminum Oxide (1344-28-1)**
  - SARA 313: Form R reporting required for 1.0% de minimis concentration (fume or dust only)
- **Copper (7440-50-8)**
  - SARA 313: Form R reporting required for 1.0% de minimis concentration
  - CERCLA: Final RQ 5000 pounds (2270 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)
- **Zinc (7440-66-6)**
  - SARA 313: Form R reporting required for 1.0% de minimis concentration (only fume or dust)
CERCLA: Final RQ = 1000 pounds (454 kg) (no reporting of releases of this hazardous substance is required if the diameter of the solid metal released is equal to or exceeds 0.004 inches)

Nickel (7440-02-0)
SARA 313: Form R reporting required for 0.1% de minimis concentration
CERCLA: Final RQ = 100 pounds (45.4 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches).

Manganese (7439-96-5)
SARA 313: Form R reporting required for 1.0% de minimis concentration

Chromium (7440-47-3)
SARA 313: Form R reporting required for 1.0% de minimis concentration
CERCLA: Final RQ = 5000 pounds (2270 kg) (no reporting of releases of this hazardous material is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)

Beryllium (7440-41-7)
SARA 313: Form R reporting required for 0.1% de minimis concentration
CERCLA: Final RQ = 10 pounds (4.54 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)

Lead (7439-92-1)
SARA 313: Form R reporting required for 0.1% de minimis concentration
CERCLA: Final RQ = 100 pounds (45.4 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)

SARA 311/312 Physical and Health Hazard Categories:
Immediate (acute) Health Hazard: Yes, if particulates/fumes generated during processing.
Delayed (chronic) Health Hazard: Yes, if particulates/fumes generated during processing.
Fire Hazard: No
Sudden Release of Pressure: No
Reactive: Yes, if molten

State Regulations
A. General Product Information
Pennsylvanina” Special Hazardous Substances”: Chromium, Chromium compounds, hexavalent, Nickel. Chemicals known to the State of California to cause cancer: Chromium (hexavalent compounds), Cobalt metal powder, Nickel and certain nickel compounds, Lead and lead compounds. Chemical(s) known to the State of California to cause reproductive/development effects: Lead.

B: Component Analysis-State
The following components appear on one or more of the State Hazardous Substances Lists:

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<th>CAS #</th>
<th>Component</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
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<th>NJ</th>
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<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>7440-21-3</td>
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<td>Yes</td>
</tr>
</tbody>
</table>
The following statement(s) are provided under the California State Drinking Water and Toxic Enforcement Act of 1986. (Proposition 65)

Warning: This product contains a chemical known to the State of California to cause cancer.
Warning: This product contains a chemical known to the State of California to cause reproductive/developmental effects.

### Section 16 - Other Information

**Abbreviations and Acronyms:**

ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NFPA = National Fire Protection Association; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; OSHA = Occupational Health and Safety Administration; PEL = Permissible Exposure Limit; NIOSH = National Institute for Occupational Safety and Health; LD50 = Lethal Dose, 50%; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980; SARA = Superfund Amendments and Reauthorization Act

**References:**

Available upon request.