Safety Data Sheet

Material Name: Aluminum Alloys Containing Lead
SDS ID: KDS-7

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

Identification Number: KDS-7
Chemical Name: Aluminum (Minimum 0.1% Lead)
Product Use: Fabricated Parts
Synonyms: None
Manufacturer Information
Kaiser Aluminum
27422 Portola Parkway
Suite 200
Foothill Ranch, CA 92610

24 HR Emergency Telephone: CHEMTREC, call 1-800-424-9300;
International CHEMTREC, call: 001-703-527-3887
For non-emergency assistant Kaiser Aluminum, call: 1-877-335-9886

*** Section 2 - Hazards Identification ***

Emergency Overview
Product is solid metallic pieces. Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air. Firefighters should wear full protective clothing and self contained breathing apparatus. Exposure to dust may be irritating to eyes, nose, and throat. Contact with hot metal may cause severe thermal burns. Do not touch or handle cast aluminum or heated materials before determining the temperature. Product contains lead, a suspect human carcinogen and reproductive hazard. It may cause damage to the central nervous system and brain. Excessive lead exposure may also adversely affect male and female reproductive capability and cause harm to the unborn fetus. Hot work operation such as welding, torch cutting, etc may potentially generate lead fumes and hexavalent chromium which has been identified as a carcinogen. See Section 15.

Potential Health Effects: Eyes
Dust, fumes or powder may irritate eye tissue. Eye contact with aluminum particles may cause corneal necrosis.

Potential Health Effects: Skin
Dust or powder may irritate the skin. Some products may contain residual coating. Prolonged skin contact with the coating oils and nickel component may result in skin sensitization (allergy) in some individuals. Do not touch or handle cast aluminum or heated materials before determining the temperature. Aluminum does not change color on heating. Contact with hot metal may cause severe thermal burns.

Potential Health Effects: Ingestion
Not a likely route of entry. Ingestion of large amounts of dusts or particulates may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Potential Health Effects: Inhalation
Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

HMIS Ratings: Health: 1* Fire: 1 Reactivity: 0 Pers. Prot.: Goggles, Gloves
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe  * = Chronic hazard

Hazard Label Pictograms:

- Explosive
- Irritant
- Respiratory Sensitizer

---

Issue Date: 12/18/2018   Revision: 11.0000
**Section 3 - Composition / Information on Ingredients**

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>Aluminum</td>
<td>80-90</td>
</tr>
</tbody>
</table>

**Alloying Elements:**

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-21-3</td>
<td>Silicon P, W</td>
<td>0.1-1, 1-5, 5-10, 10-15</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>Iron P, W</td>
<td>0.1-1, 1-5</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>Zinc P, W</td>
<td>0.1-1, 1-5, 5-10</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper P, W</td>
<td>0.1-1, 1-5, 5-10</td>
</tr>
<tr>
<td>7439-96-5</td>
<td>Manganese P, W</td>
<td>0.1-1, 1-5</td>
</tr>
<tr>
<td>7439-95-4</td>
<td>Magnesium P, W</td>
<td>0.1-1, 1-5, 5-10</td>
</tr>
<tr>
<td>7440-69-9</td>
<td>Bismuth P, W</td>
<td>0.1-1, 1-3</td>
</tr>
<tr>
<td>7440-31-5</td>
<td>Tin P, W</td>
<td>0.1-1, 1-2</td>
</tr>
<tr>
<td>64771-72-8</td>
<td>Coating Oil</td>
<td>0.1-1</td>
</tr>
<tr>
<td>7440-47-3</td>
<td>Chromium P, W</td>
<td>0.1-1</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>Lead P, W</td>
<td>0.1-1, 1-2</td>
</tr>
</tbody>
</table>

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Iron oxide (1309-37-1), Magnesium oxide fume (1309-48-4), Zinc oxide (1314-13-2).

**Component Information/Information on Non-Hazardous Components**

This material is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and the Canadian Workplace Hazardous Materials Information System (WHMIS). The information in this SDS is provided for situations where this material may be deformed creating dusts or fumes which may be potentially hazardous.

Coating Oils: Certain products may be coated with residual processing materials which comprise less than 1% of the total product. These can include 111-82-0, 112-39-0, 112-72-1, 124-10-7, 30399-84-9, 64771-72-8, and proprietary corrosion inhibitors. See Section 16 for chemical names. With the exception of 64771-72-8 there are no established or recommended exposure limits.

(W): Wrought Aluminum (fabricated products).**

**Section 4 - First Aid Measures**

**First Aid: Eyes**

Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists get medical attention.

**First Aid: Skin**

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

**First Aid: Ingestion**

Due to the physical nature of this material, ingestion is unlikely to occur. If ingestion of a large amount does occur, seek medical attention.

**First Aid: Inhalation**

If symptoms are experienced, remove source of contamination or move victim to fresh air. Give oxygen if breathing is difficult. Call a physician if symptoms develop or persist.

¹ Where more than one range for a component is given in the “Percent” column, the range for the component includes all the individual ranges. Thus, if the column lists 0.1-1, 1-5, 5-10, the material is present in the product at a concentration between 0.1 and 10 percent.
**General Fire Hazards**

High concentration of airborne dust may form explosive mixture with air. Use adequate ventilation. Coating oils that may be present on some products can be ignited by open flames and other sources of ignition while the aluminum base product will ignite only under extreme conditions. When heated to decomposition, it emits highly toxic fumes of lead.

**Unusual Fire and Explosion Hazards**

Fresh, very finely ground aluminum, may be pyrophoric when its particle size is 0.03 um or less. Dust is moderately flammable/explosive by heat, flame or chemical reaction with powerful oxidizers. May ignite on contact with vapors of AsCl3, SCI2, Se2Cl2, PC15; on contact with barium peroxide; contact with O2; mixtures with picric acid + water after a delayed period; exothermic reaction with water + iron powder which emits hydrogen gas; and spontaneously ignites in CS2 vapors.

May ignite and react violently with mixtures of sodium peroxide and O2+H2O; on contact with halogens and interhalogens. May react violently with hydrochloric acid, hydrogen chloride gas and disulfur dibromide; non-metals phosphorus, sulfur and selenium; with sulfur, Sb or As when heated; and potential violent reaction with sodium peroxide. May have a violent or explosive reaction when heated with metal oxides, oxosalts (nitrates, sulfates), some halocarbons, sulfides or hot copper oxide worked with an iron or steel tool. May have an explosive reaction with sodium sulfate above 800 °C; in powdered form with KClO4+Ba (NO3) 2+ KNO3+H2O and Ba (NO3)2+KNO3+sulfur+vegetable adhesives+H2O after a delayed period; powder forms sensitive explosive mixture with oxidants; mixtures with powdered AgCl, NH4NO3, or NH4NO3+Ca (NO3)2+formamide+H2O are powerful explosives; mixtures with ammonium peroxodisulfate+water is explosive; and potential explosive reaction with CCl4 during ball milling operations. Many violent or explosive reactions with the following halocarbons have occurred in industry: bromothane, bromotrifluoromethane, CCl4, chlorodifluoromethane, chloroform, chloromethane, chloromethane+2-methylpropane, dichlorodifluoromethane, 1, 2-dichloroethane, dichloromethane, 1, 2-dichloropropane, 1,2 -difluorotetrafluoroethane, fluorotrichloroethane, hexachloroethane alcohol, polytrifluorethylene oils and greases, tetrachlorethylene, tetrachlorethylene, tetrafluoromethane, 1,1,1-trichloroethane, trichloroethylene, 1,1,2-trichlorotrifluoroethane, and trichlorotrifluoroethane-dichlorobenzene. (Sax, Dangerous Properties of Industrial Materials, eighth edition).

**Hazardous Combustion Products**

Decomposition of base metal product may yield metallic oxides and toxic lead oxide fumes

Decomposition of coating oils present on some products will release carbon monoxide, carbon dioxide, and other hydrocarbon species.

**Extinguishing Media**

Use dry chemical, foam, carbon dioxide, water spray or water fog for oil fires.

Use dry powder, talc, or sand to extinguish metal fires.

Material in or near fires should be cooled with a water spray or fog if compatible with fire fighting techniques for the other materials involved in the fire.

**Unsuitable Extinguishing Media**

Do NOT use water or halogenated agents.

**Fire Fighting Equipment/Instructions**

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products. Avoid creation of dusts.

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe

**Containment Procedures**

Contain the discharged material. Remove sources of ignition.
Clean-Up Procedures
Shovel the material into waste container. Avoid the generation of dusts during clean-up. When dealing with aluminum powder/dust wear appropriate respiratory and protective equipment specified in Section 8. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Use non-sparking tools.

Evacuation Procedures
Isolate area. Keep unnecessary personnel away.

Special Procedures
Wear appropriate personal protective equipment. See Section 8. Follow all Local, State, Federal and Provincial regulations for disposal.

* * * Section 7 - Handling and Storage * * *

Handling Procedures
Do not breathe fumes or dusts from this material. Use with adequate ventilation. Keep dusts and powders of this product from heat, sparks, or open flame. Use non-sparking tools when opening or closing containers. Do not touch or handle cast aluminum or heated materials before determining the temperature. Aluminum does not change color on heating. Series 2000 and 7000 alloy ingots must be stress relieved prior to being sawed to prevent an explosion or violent cracking. Products may have sharp edges. Handle with caution and wear appropriate personal protective equipment. Dry metal properly before loading in a melting furnace. Moisture trapped in crevices and occlusions can cause a violent explosion.

Storage Procedures
Keep the container tightly closed and in a cool, well-ventilated place. Store away from incompatible materials. If dusts and powders are formed, use adequate ventilation in storage and do not handle or store dusts or powders of this product near an open flame, heat or other sources of ignition.
Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. Vacuuming with a HEPA (High Efficiency Particulate Air) equipped vacuum is recommended to clean up any dusts that may be generated during handling and processing. Wash hands and face thoroughly before eating, drinking or smoking.
A: Component Exposure Limits

Consult local authorities for acceptable exposure limits.

**Aluminum (7429-90-5)**

- ACGIH: 10 mg/m³ TWA (metal dust)\(^2\)
- OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- CAL-OSHA: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- Alberta: 10 mg/m³ TWA (dust)
- British Columbia: 10 mg/m³ TWA (total dust); 3 mg/m³ TWA (respirable fraction)
- Manitoba: 10 mg/m³ TWA
- New Brunswick: 10 mg/m³ TWA (metal dust)
- NW Territories: 10 mg/m³ TWA
- Nova Scotia: 10 mg/m³ TWA (metal dust)
- Nunavut: 10 mg/m³ TWA
- Ontario: 5 mg/m³ TWA (powder); 10 mg/m³ TWA (metal and oxide dust)
- Quebec: 10 mg/m³ TWA
- Saskatchewan: 10 mg/m³ TWA
- 20 mg/m³ STEL

**Silicon (7440-21-3)**

- OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- CAL-OSHA: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
- Alberta: 10 mg/m³ TWA
- British Columbia: 10 mg/m³ TWA (total dust); 3 mg/m³ TWA (respirable fraction)
- Manitoba: 10 mg/m³ TWA (total dust containing no asbestos and <1% free silica)
- New Brunswick: 10 mg/m³ TWA
- NW Territories: 5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)
- Nova Scotia: 10 mg/m³ TWA
- Nunavut: 5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)
- Ontario: 10 mg/m³ TWA (total dust)
- Quebec: 10 mg/m³ TWA (total, containing no asbestos and less than 1% crystalline silica)
- Saskatchewan: 10 mg/m³ TWA
- 20 mg/m³ STEL
- Yukon: 30 mppcf TWA; 10 mg/m³ TWA
- 20 mg/m³ STEL

---

\(^2\) The ACGIH has proposed changing the TLV for aluminum from 10 mg/m³ as total dust to 1 mg/m³ as respirable particulate matter.
Iron (7439-89-6)

ACGIH: 5 mg/m3 TWA (respirable fraction) (related to iron oxide (Fe2O3))
OSHA: 10 mg/m3 TWA (fume) (related to iron oxide)
CAL-OSHA: 5 mg/m3 TWA (fume) (related to iron oxide)
NIOSH: 5 mg/m3 TWA (dust and fume, as Fe) (related to iron oxide)
Alberta: 5 mg/m3 TWA (dust and fume, as Fe) (related to iron oxide)
British Columbia: 5 mg/m3 TWA (dust and fume, as Fe) (related to iron oxide)
10 mg/m3 STEL (fume, as Fe) (related to iron oxide)
Manitoba: 5 mg/m3 TWA (as Fe, welding fumes, dust, total particulate) (related to iron oxide (Fe2O3))
New Brunswick: 5 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, dust and fume, as Fe) (related to iron oxide (Fe2O3))
NW Territories: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Rouge)
Nova Scotia: 5 mg/m3 TWA (respirable fraction) (related to iron oxide (Fe2O3))
Nunavut: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Rouge)
Ontario: 5 mg/m3 TWAEV (dust and fume, as Fe) (related to iron oxide)
Quebec: 5 mg/m3 TWAEV (dust and fume, as Fe) (related to iron trioxide)
Saskatchewan: 5 mg/m3 TWA (fume, as Fe) (related to iron oxide)
10 mg/m3 STEL (fume, as Fe) (related to iron oxide)
Yukon: 5 mg/m3 TWA (fume as Fe2O3) (related to iron oxide)
10 mg/m3 STEL (fume, as Fe2O3) (related to iron oxide)
Zinc (7440-66-6)

ACGIH: 2 mg/m³ TWA (respirable fraction) (related to Zinc oxide)
10 mg/m³ STEL (respirable fraction) (related to Zinc oxide)

OSHA: 5 mg/m³ TWA (fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) (related to Zinc oxide)

CAL-OSHA: 5 mg/m³ TWA, 10 mg/m³ STEL (related to Zinc oxide fume)
10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

NIOSH: 5 mg/m³ TWA (dust and fume) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)
15 mg/m³ Ceiling (dust) (related to Zinc oxide)

Alberta: 10 mg/m³ TWA (dust); 5 mg/m³ TWA (fume) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)

British Columbia: 2 mg/m³ TWA (respirable) (related to Zinc oxide)
10 mg/m³ STEL (respirable) (related to Zinc oxide)

Manitoba: 5 mg/m³ TWA (fume); 10 mg/m³ TWA (total dust containing no asbestos and <1% crystalline silica) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)

New Brunswick: 5 mg/m³ TWA (fume); 10 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica, dust) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)

NW Territories: 5 mg/m³ TWA (fume); 5 mg/m³ TWA (dust, respirable mass); 10 mg/m³ TWA (dust, total mass) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)

Nova Scotia: 2 mg/m³ TWA (respirable fraction) (related to Zinc oxide)
10 mg/m³ STEL (respirable fraction) (related to Zinc oxide)

Nunavut: 5 mg/m³ TWA (fume); 5 mg/m³ TWA (dust, respirable mass); 10 mg/m³ TWA (dust, total mass) (related to Zinc oxide)
10 mg/m³ STEL (fume) (related to Zinc oxide)

Ontario: 2 mg/m³ TWAEV (respirable) (related to Zinc oxide)
10 mg/m³ STEV (respirable) (related to Zinc oxide)

Quebec: 5 mg/m³ TWAEV (fume); 10 mg/m³ TWAEV (dust) (related to Zinc oxide)
10 mg/m³ STEV (fume) (related to Zinc oxide)

Saskatchewan: 5 mg/m³ TWA (fume); 10 mg/m³ TWA (dust) (related to Zinc oxide)
10 mg/m³ STEL (fume); 20 mg/m³ STEL (dust) (related to Zinc oxide)

Yukon: 5 mg/m³ TWA (fume); 30 mppcf TWA (dust); 10 mg/m³ TWA (dust) (related to Zinc oxide)
10 mg/m³ STEL (fume); 20 mg/m³ STEL (dust) (related to Zinc oxide)
Copper (7440-50-8)

- **ACGIH:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **OSHA/CAL-OSHA:** 0.1 mg/m³ TWA (fume), 1.0 mg/m³ (dust and mist)
- **NIOSH:** 1 mg/m³ TWA (dust and mist); 0.1 mg/m³ (respirable fume)
- **Alberta:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **British Columbia:** 0.2 mg/m³ TWA (dust and mist, as Cu); 0.2 mg/m³ TWA (fume, as Cu)
- **Manitoba:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **British Columbia:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **New Brunswick:** 0.2 mg/m³ TWA (dust and mist)
- **NW Territories:** 0.6 mg/m³ STEL (fume); 2 mg/m³ STEL (dust and mist)
- **Nova Scotia:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **Nunavut:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **Alberta:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **British Columbia:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **Ontario:** 0.2 mg/m³ TWA (fume, as Cu); 1 mg/m³ TWA (dust and mist, as Cu)
- **Quebec:** 0.2 mg/m³ TWA (fume, as Cu); 1 mg/m³ TWA (dust and mist, as Cu)
- **Saskatchewan:** 0.2 mg/m³ TWA (fume, as Cu); 1 mg/m³ TWA (dust and mist, as Cu)
- **Yukon:** 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)
- **Alberta:** 0.2 mg/m³ TWA (fume, as Mn)
- **British Columbia:** 0.2 mg/m³ TWA
- **Manitoba:** 1 mg/m³ TWA (fume)
- **New Brunswick:** 1 mg/m³ TWA (fume)
- **NW Territories:** 3 mg/m³ STEL (fume)
- **Nova Scotia:** 5 mg/m³ Ceiling (dust)
- **Nunavut:** 5 mg/m³ Ceiling
- **Ontario:** 5 mg/m³ TWA
- **Quebec:** 5 mg/m³ TWA (fume)
- **Saskatchewan:** 5 mg/m³ Ceiling; 3 mg/m³ STEL (fume)
- **Yukon:** 5 mg/m³ Ceiling

Manganese (7439-96-5)

- **ACGIH:** 0.2 mg/m³ TWA
- **OSHA:** 5 mg/m³ Ceiling (Mn fume and Mn compounds)
- **CAL-OSHA:** 0.2 mg/m³ (Mn fume and Mn compounds)
- **NIOSH:** 3 mg/m³ STEL (fume)
- **Alberta:** 1 mg/m³ TWA (fume)
- **British Columbia:** 0.2 mg/m³ TWA
- **Manitoba:** 1 mg/m³ TWA (fume)
- **New Brunswick:** 0.2 mg/m³ TWA
- **NW Territories:** 1 mg/m³ TWA (fume)
- **Nova Scotia:** 0.2 mg/m³ TWA
- **Nunavut:** 1 mg/m³ TWA (fume)
- **Ontario:** 0.2 mg/m³ TWAEV
- **Quebec:** 5 mg/m³ TWAEV (dust); 1 mg/m³ TWAEV (fume)
- **Saskatchewan:** 5 mg/m³ TWAEV
- **Yukon:** 5 mg/m³ Ceiling
Magnesium (1309-48-4)

- ACGIH: 10 mg/m³ TWA (inhalable fraction) (related to Magnesium oxide)
- OSHA: 15 mg/m³ TWA (total particulate) (related to Magnesium oxide fume)
- CAL-OSHA: 10 mg/m³ TWA (fume)
- Alberta: 10 mg/m³ TWA (fume) (related to Magnesium oxide)
- British Columbia: 10 mg/m³ TWA (fume, inhalable, as Mg); 3 mg/m³ TWA (respirable dust and fume, as Mg) (related to Magnesium oxide)
- 10 mg/m³ STEL (respirable dust and fume, as Mg) (related to Magnesium oxide)
- Manitoba: 10 mg/m³ TWA (fume) (related to Magnesium oxide)
- New Brunswick: 10 mg/m³ TWA (fume) (related to Magnesium oxide)
- NW Territories: 10 mg/m³ TWA (fume, as Mg) (related to Magnesium oxide)
- Nova Scotia: 10 mg/m³ TWA (inhalable fraction) (related to Magnesium oxide)
- Nunavut: 10 mg/m³ TWA (fume, as Mg) (related to Magnesium oxide)
- 20 mg/m³ STEL (fume, as Mg) (related to Magnesium oxide)
- Ontario: 10 mg/m³ TWA (fume as Mg) (related to Magnesium oxide)
- Quebec: 10 mg/m³ TWA (fume, as Mg) (related to Magnesium oxide)
- Saskatchewan: 10 mg/m³ TWA (fume) (related to Magnesium oxide)
- 20 mg/m³ STEL (fume) (related to Magnesium oxide)
- Yukon: 10 mg/m³ TWA (fume as Mg) (related to Magnesium oxide)
- 10 mg/m³ STEL (fume, as Mg) (related to Magnesium oxide)

Bismuth (7440-69-9)

Note: There are currently no applicable limits for the bismuth component of the products in the US.

Tin (7440-31-5)

- ACGIH: 2 mg/m³ TWA
- OSHA: 2 mg/m³ TWA (inorganic compounds except oxides)
- 0.1 mg/m³ TWA (organic compounds)
- CAL-OSHA: 0.1 mg/m³ TWA, 0.2 mg/m³ STEL (organic compounds)
- NIOSH: 2 mg/m³ TWA
- Alberta: 2 mg/m³ TWA
- British Columbia: 2 mg/m³ TWA
- Manitoba: 2 mg/m³ TWA
- New Brunswick: 2 mg/m³ TWA
- Nova Scotia: 2 mg/m³ TWA
- Ontario: 2 mg/m³ TWA EV
- Quebec: 2 mg/m³ TWA EV
- Saskatchewan: 2 mg/m³ TWA
- 4 mg/m³ STEL
Safety Data Sheet

Material Name: Aluminum Alloys Containing Lead

Chromium (7440-47-3)

- ACGIH: 0.5 mg/m3 TWA
- OSHA: 1 mg/m3 TWA
- CAL-OSHA: 0.5 mg/m3 TWA
- NIOSH: 0.5 mg/m3 TWA
- Alberta: 0.5 mg/m3 TWA
- British Columbia: 0.5 mg/m3 TWA
- Manitoba: 0.5 mg/m3 TWA
- New Brunswick: 0.5 mg/m3 TWA
- NW Territories: 0.5 mg/m3 TWA
- Nova Scotia: 0.5 mg/m3 TWA
- Nunavut: 0.5 mg/m3 TWA
- Ontario: 0.5 mg/m3 TWA
- Quebec: 0.5 mg/m3 TWA
- Saskatchewan: 0.5 mg/m3 TWA
- Yukon: 0.1 mg/m3 TWA

- 1.5 mg/m3 STEL

Lead (7439-92-1)

- ACGIH: 0.05 mg/m3 TWA
- OSHA: 50 µg/m3 TWA (as Pb); 30 µg/m3 Action Level (as Pb. Poison - see 29 CFR 1910.1025)
- CAL-OSHA: 50 ug/m3 TWA (as Pb); 30 µg/m3 Action Level (see GISO, Title 8, Section 5198)
- NIOSH: 0.05 mg/m3 TWA; Blood lead level <0.06mg/100 ml of whole blood
- Alberta: 0.05 mg/m3 TWA
- British Columbia: 0.05 mg/m3 TWA
- Manitoba: 0.15 mg/m3 TWA (dust and fume)
- New Brunswick: 0.05 mg/m3 TWA
- NW Territories: 0.15 mg/m3 TWA
- Nova Scotia: 0.05 mg/m3 TWA
- Nunavut: 0.15 mg/m3 TWA
- Ontario: 0.15 mg/m3 TWA (designated substance regulation)
- Quebec: 0.15 mg/m3 TWA (dust and fume)
- Saskatchewan: 0.15 mg/m3 TWA
- Yukon: 0.1 mg/m3 TWA

- 0.45 mg/m3 STEL

Engineering Controls

Use local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear safety glasses with side shields.

Personal Protective Equipment: Skin
Wear leather or other appropriate work gloves, if necessary for type of operation.
Safety Data Sheet

Material Name: Aluminum Alloys Containing Lead  
SDS ID: KDS-7

Personal Protective Equipment: Respiratory
If ventilation is not sufficient to effectively control exposures, appropriate NIOSH approved respirators should be used. Respirators should be selected and used under the direction of trained health and safety professionals in accordance with all applicable health, safety, and environmental regulations.

Personal Protective Equipment: General
When handling lead dust. Splash goggles. Full suit. Boots. Gloves. A n appropriate NIOSH approved respirator should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a health and safety specialist or industrial hygienist BEFORE handling.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid metallic pieces</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility (H₂O)</td>
<td>&lt;1 %</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>950-1215°F (510-660°C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.5-2.9 g/cc</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
Stable under normal conditions.

Chemical Stability: Conditions to Avoid
Avoid ignition sources where dust is produced. Avoid incompatible materials.
Special Sensitivity: Series 2000 and 7000 alloy ingots must be stress relieved prior to being sawed to prevent an explosion or violent cracking. When melting aluminum, aluminum alloys, or aluminum scrap, care must be taken to exclude water or moisture. Water or moisture trapped under hot or molten metal can result in a violent explosion. Strong oxidizing agents must be excluded during heating and melting operations to prevent the possibility of an explosion. Finely divided aluminum dusts may form explosive mixtures in air. Care should be taken to employ effective dust control measures.

Incompatibility
This product may react with strong acids, bases and oxidizing agents to produce hydrogen gas, which is highly flammable. Contact with chlorinated solvents may release toxic and corrosive hydrogen chloride gas. Hot aluminum may react with chlorinated solvents to produce phosgene, a highly irritating and toxic gas.

Hazardous Decomposition
Decomposition of this product may yield metallic oxides and toxic lead fumes
Decomposition of coating oils present on some products will release carbon monoxide, carbon dioxide, and other hydrocarbon species.

Possibility of Hazardous Reactions
Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects
A: General Product Information
Inhalation of metal fumes may cause metal fume fever, a flu-like illness generally lasting 24 hours or less.

Aluminum: Chronic overexposure to aluminum can result in lung damage and has been associated with asthma-like syndrome. Accumulation of aluminum in the body may result in neurological damage, anemia and bone softening. Repeated overexposure to high levels of aluminum oxide may lead to pulmonary fibrosis, a progressive lung disorder.

Silicon: Silicon dust seems to have little adverse effect on lungs and does not appear to produce significant organic disease or toxic effects when exposures are kept under reasonable control.
Iron: Chronic inhalation of iron has resulted in mottling of the lungs, a condition referred to as siderosis. This is considered benign pneumoconiosis and does not ordinarily cause significant physiologic impairment.

Zinc: Zinc poisoning can cause anemia, lethargy and dizziness. Inhalation of zinc fumes may cause metal fume fever, a flu-like illness generally lasting 24 hours or less.

Manganese: Overexposure to manganese may result in CNS effects, anemia and pneumonitis which increases the risk of pneumonia.

Tin: Prolonged exposure to high concentration of tin-containing dusts and/or fumes may result in the development of Stannosis which is a rare benign pneumoconiosis. The maximum concentration of tin in the product is such that Stannosis should not present a potential hazard.

Chromium: Industrial exposure to chromium may cause dermatitis, skin ulcers, perforation of the nasal septum, as well as cancers of the lungs, nasal cavity and paranasal sinuses. The cancer sites are mainly associated with hexavalent chrome which can also cause skin sensitization, skin and nasal ulcers, and perforation of the nasal septum.

Lead: Inorganic lead has been found to have toxic effects on both the central and peripheral nervous systems. Symptoms of lead toxicity include behavioral disturbances such as irritability, restlessness, insomnia, and other sleep disturbances, fatigue, vertigo, headache, poor memory, tremor, depression, and apathy. With more severe exposure, symptoms can progress to drowsiness, stupor, hallucinations, delirium, convulsions, and coma. Lead compounds can have a variety of effects. Lead poisoning is characterized by muscle weakness, weight loss, listlessness, insomnia, gastrointestinal disturbances, and low blood pressure. In severe cases, neuromuscular damage can occur as well as permanent brain damage. In addition to generalized poisoning, lead can have potentially serious reproductive effects for both males and females. Lead exposure can cause decreased fertility in both males and females. Male sperm counts can be decreased and sperm morphology altered while the female ovulatory cycle can be disrupted. Lead can also cross the placental barrier and affect the developing fetus. Studies have shown that in-utero lead exposure can lead to potentially severe developmental disabilities.

B: Component Analysis - LD50/LC50

Silicon (7440-21-3)
Oral LD50 Rat: 3160 mg/kg

Iron (7439-89-6)
Oral LD50 Rat: 984 mg/kg

Zinc (7440-66-6)
Oral LD50 Rat: >5000 mg/kg (related to Zinc oxide)

Manganese (7439-96-5)
Oral LD50 Rat: 9 g/kg

Magnesium (7439-95-4)
Oral LD50 Rat: 230 mg/kg

Bismuth (7440-69-9)
Oral LD50 Rat: 5 g/kg
Repeated Dose Effects
Exposure to metal dusts and oxides may cause fume fever. Fume fever is a temporary flu-like condition characterized by chills, fever, muscle aches and pains, nausea and vomiting. Typically the symptoms appear within a few hours after exposure and subside within 2-3 days with no permanent effects.

Carcinogenicity
A: General Product Information
No carcinogenicity data available for this product.
B: Component Carcinogenicity
Iron (7439-89-6)
- ACGIH: A4 - Not Classifiable as a Human Carcinogen (dust and fume) (related to Iron oxide)
- IARC: Supplement 7 [1987], Monograph 1 [1972] (related to Ferric oxide) (Group 3 (not classifiable))

Magnesium (7439-95-4)
- ACGIH: A4 - Not Classifiable as a Human Carcinogen (related to Magnesium oxide)

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))

Lead (7439-92-1)
- ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans
- OSHA: 50 µg/m3 TWA (as Pb); 30 µg/m3 Action Level (as Pb. Poison - see 29 CFR 1910.1025)
- NTP: Reasonably Anticipated To Be A Carcinogen (Possible Select Carcinogen)
- IARC: Supplement 7 [1987], Monograph 23 [1980] (evaluated as a group) (Group 2B (possibly carcinogenic to humans))

Reproductive Toxicology
Lead has a wide variety of reproductive effects in humans. It can affect both the male and female reproductive organs as well as egg and sperm production and development. Lead can also cause neurodevelopmental debilitations in children from both prenatal and postnatal exposures.

** Section 12 - Ecological Information **

Ecotoxicity
A: General Product Information
No data available for this product. Coating oils may present an environmental hazard to aquatic and terrestrial flora and fauna.
B: Component Analysis - Ecotoxicity - Aquatic Toxicity
Iron (7439-89-6)
- 96 Hr LC50 Morone saxatilis 13.6 mg/L static

Zinc (7440-66-6)
- 96 Hr LC50 Pimephales promelas 6.4 mg/L
- 96 Hr EC50 Selenastrum capricornutum 30 µg/L
- 72 Hr EC50 water flea 5 µg/L
### Copper (7440-50-8)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>23 µg/L</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss</td>
<td>13.8 µg/L</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus</td>
<td>236 µg/L</td>
</tr>
<tr>
<td>72 Hr EC50 Scenedesmus subspicatus</td>
<td>120 µg/L</td>
</tr>
<tr>
<td>96 Hr EC50 water flea</td>
<td>10 µg/L</td>
</tr>
<tr>
<td>96 Hr EC50 water flea</td>
<td>200 µg/L</td>
</tr>
</tbody>
</table>

### Coating Oil (64771-72-8)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>&gt;5000 mg/L</td>
</tr>
</tbody>
</table>

### Lead (7439-92-1)

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 Pimephales promelas</td>
<td>6.5 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 water flea</td>
<td>600 µg/L</td>
</tr>
</tbody>
</table>

### Environmental Fate

No data available for this product.

---

### Section 13 - Disposal Considerations

#### US EPA Waste Number & Descriptions

**A: General Product Information**

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

**B: Component Waste Numbers**

<table>
<thead>
<tr>
<th>Chromium (7440-47-3)</th>
<th>RCRA: 5.0 mg/L regulatory level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (7439-92-1)</td>
<td>RCRA: 5.0 mg/L regulatory level</td>
</tr>
</tbody>
</table>

---

### Section 14 - Transportation Information

#### US DOT Information

Shipping Name: Not regulated.

Additional Info.: Aluminum and aluminum alloys are not regulated for transportation. Aluminum powder is regulated: Aluminum Powder, Class 4.3, UN 1396, PG II.

---

#### TDG Information

Shipping Name: Not regulated.

Additional Info.: Aluminum and aluminum alloys are not regulated for transportation. Aluminum powder is regulated: Aluminum Powder, Class 4.3, UN 1396, PG II.
**Section 15 - Regulatory Information**

**A: General Product Information**

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

**B: 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:** 1.0 % de minimis concentration (dust or fume only)

**Zinc (7440-66-6)**

- **SARA 313:** 1.0 % de minimis concentration (dust or fume only)
- **CERCLA:** 1000 lb final RQ (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); 454 kg final RQ (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)

**Copper (7440-50-8)**

- **SARA 313:** 1.0 % de minimis concentration
- **CERCLA:** 5000 lb final RQ (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); 2270 kg final RQ (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:** 1.0 % de minimis concentration

**Chromium (7440-47-3)**

- **CERCLA:** 5000 lb final RQ (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); 2270 kg final RQ (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)

Hot work operations such as welding, torch cutting, etc. will generate metal oxides, which can include hexavalent chromium. OSHA has enacted a standard for exposure to hexavalent chromium [29 CFR 1910.1026], which mandates very stringent exposure limits. Users of the product are urged to read this standard and determine how it might affect their operations.

**Lead (7439-92-1)**

- **SARA 313:** 0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)
- **CERCLA:** 10 lb final RQ (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); 4.54 kg final RQ (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)
C: Component Marine Pollutants
This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
</tr>
</tbody>
</table>

DOT regulated severe marine pollutant

Acute Health: Yes  Chronic Health: Yes  Fire: No  Pressure: No  Reactive: No

State Regulations
A: General Product Information
Other state regulations may apply. Check individual state requirements.

Aluminum and its alloys may contain up to 0.005% beryllium, 0.05% cadmium, <0.1% chromium, 0.05% lead, and 0.05% nickel as impurities if these elements are not listed in Section 3. Beryllium, cadmium, chromium, lead, and nickel have been identified as carcinogens or having developmental or reproductive toxicity by the State of California, as Special Health Hazard Substances by the States of New Jersey and Pennsylvania, and as Extraordinarily Hazardous Substances by the State of Massachusetts.

B: Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Iron (related to Iron oxide) (related to Iron oxide fume)</td>
<td>7439-89-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc (related to Zinc oxide)</td>
<td>7440-66-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Magnesium (related to Magnesium oxide fume)</td>
<td>7439-95-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Canadian WHMIS Information
A: General Product Information
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by CPR.
B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>1 %</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>1 % (related to Ferric oxide)</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>1 % (related to Zinc oxide)</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>1 %</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>1 %</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-95-4</td>
<td>1 % (related to Magnesium oxide)</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0.1 %</td>
</tr>
</tbody>
</table>

WHMIS Classification:
- Class D2A: Very Toxic Material
- Class D2B: Eye and skin irritation (If dusts are formed)

Additional Regulatory Information
A: General Product Information
No additional information available.

B: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-95-4</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Bismuth</td>
<td>7440-69-9</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Coating Oil</td>
<td>64771-72-8</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Other Information

Coating Component Information:
- 111-82-0: Dodecanoic acid, methyl ester
- 112-39-0: Methyl palmitate
- 112-72-1: Myristic alcohol
- 124-10-7: Methyl tetradecanoate
- 30399-84-9: Isooctadecanoic acid
- 64771-72-8: Paraffins, petroleum, normal C5-20

Exercise caution when cutting the containment strapping that may secure some products, particularly wrought materials, during transportation. It may rebound and cause serious injury.
Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

End of Sheet KDS-7