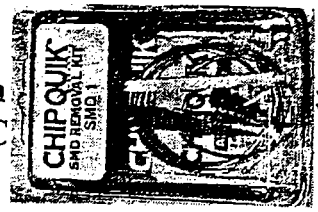
CHIP QUIK, INC.
The SMD Removal Solution
195 Falmouth Road Unit 1C
Mashpee, MA 02649




SMD 1 Alloy 2.5 F.t.

# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

| | |
|---|---|
| Common Name | AIM 58 |
| Supplier | AIM |
| Synonym | Bi../In../Pb../Sn.. |
| Trade name | AIM 58 |
| Material Uses | Metal industry: Metallurgy. Low melting alloy |
| Manufacturer | AIM<br>9100 Henri-Bourassa east,<br>Montreal, Quebec, H1E 2S4 |

CHIP QUIK® PATENTED
SMD REMOVAL KIT
SMD 1

| | |
|---|---|
| Code | Not available. |
| MSDS# | Not available. |
| Validation Date | 5/20/98 |
| Print Date | 8/20/99 |
| In case of Emergency | USA: Infotrac (800)535-5053<br>INTERNATIONAL: Infotrac (708)918-1900<br>CANADA: not available |

## Section 2. Composition and Information on Ingredients

| Name | CAS # | % by Weight | TLV/PEL | $LC_{50}/LD_{50}$ |
|---|---|---|---|---|
| Indium | 7440-74-6 | 10-30 | TWA: 0.1 (mg/m³) from ACGIH (TLV) [1986] Total.<br>TWA: 0.1 (mg/m³) from ACGIH<br>TWA: 0.1 (mg/m³) from NIOSH | Not available. |
| Lead | 7439-92-1 | 10-30 | TWA: 0.05 (mg/m³) from ACGIH (TLV)<br>TWA: 0.05 (mg/m³) from ACGIH<br>TWA: 0.1 (mg/m³) from NIOSH | Not available. |
| Tin | 7440-31-5 | 7-13 | TWA: 2 STEL: 0.2 (mg/m³) from OSHA (PEL) [1997] Respirable.<br>TWA: 2 (mg/m³) from OSHA (PEL) [1993] Respirable.<br>TWA: 2 STEL: 0.2 (mg/m³) from ACGIH [1994] Respirable.<br>TWA: 2 (mg/m³) from NIOSH | Not available. |

## Section 3. Hazards Identification

| | |
|---|---|
| Routes of Entry | Eye contact. Ingestion. Inhalation. Skin contact. |
| Potential Acute Health Effects | Fumes and/or dusts produced by this product may be hazardous in case of eye contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. This product may be hazardous in case of skin contact (irritant, sensitizer). |
| Potential Chronic Health Effects | Fumes and/or dusts produced by this product may be hazardous in case of eye contact (irritant), of ingestion, of inhalation.<br>This product may be hazardous in case of skin contact (irritant, sensitizer).<br>**CARCINOGENIC EFFECTS**: [LEAD]: Classified + (Proven) by OSHA, A3 (Proven for animal) by ACGIH, 2B (Possible for human) by IARC.<br>**MUTAGENIC EFFECTS**: Not available.<br>**TERATOGENIC EFFECTS**: Not available.<br>**DEVELOPMENTAL TOXICITY**: PROVEN [Lead]<br>The product may be toxic to blood, kidneys, liver, heart, upper respiratory tract, skin, eyes, the nervous system, the reproductive system, spleen, brain, digestive system, gastro-intestinal tract, lungs.<br>Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs. |

Continued on Next Page

## Section 4. First Aid Measures

| | |
|---|---|
| **Eye Contact** | Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention. |
| **Skin Contact** | Prolonged and repeated contact with bare skin may cause irritation. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. |
| **Hazardous Skin Contact** | MOLTEN METAL causes SEVERE BURNS! In case of BURNS: DO NOT USE WATER. Cover with antiseptic ointment and steril gauze. Seek IMMEDIATE medical attention. |
| **Inhalation** | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| **Hazardous Inhalation** | No additional information. |
| **Ingestion** | DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. |
| **Hazardous Ingestion** | No additional information. |

## Section 5. Fire and Explosion Data

| | |
|---|---|
| **Flammability of the Product** | Non-flammable. |
| **Auto-Ignition Temperature** | Not applicable. |
| **Flash Points** | Not applicable. |
| **Flammable Limits** | Not applicable. |
| **Products of Combustion** | Not applicable. |
| **Fire Hazards in Presence of Various Substances** | Not applicable. |
| **Explosion Hazards in Presence of Various Substances** | Non-explosive in presence of open flames and sparks, of shocks, of heat. |
| **Fire Fighting Media and Instructions** | Not applicable. |
| **Special Remarks on Fire Hazards** | Massive metal is nonflammable. |
| **Special Remarks on Explosion Hazards** | No additional remark. |

## Section 6. Accidental Release Measures

| | |
|---|---|
| **Small Spill** | MOLTEN METAL: Let cool before picking up and returning to process or recycling. OTHER: Use appropriate tools to put the spilled solid in a container reserved to that effect. |
| **Large Spill** | MOLTEN METAL: Let cool before picking up and returning to process or recycling. OTHER: Use appropriate instruments to put the spilled material in a container reserved to that effect. |

## Section 7. Handling and Storage

| | |
|---|---|
| **Handling** | Wear suitable protective clothing. Use in a well ventilated area. When using do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. |
| **Storage** | Keep container tightly closed. Keep in a cool and well-ventilated area. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room. |

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## Section 8. Exposure Controls/Personal Protection

| | |
|---|---|
| **Engineering Controls** | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| **Personal Protection** | HANDLING: gloves, safety glasses, dust respirator<br>REMELTING: heat resistant gloves, splash goggles or face-shield, coveralls, dust and fume respirator. Wear suitable respirator if ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent. |
| **Personal Protection in Case of a Large Spill** | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |

| Chemical Name or Product Name | CAS # | Exposure Limits |
|---|---|---|
| Indium | 7440-74-6 | TWA: 0.1 (mg/m³) from ACGIH (TLV) [1986] Total.<br>TWA: 0.1 (mg/m³) from ACGIH<br>TWA: 0.1 (mg/m³) from NIOSH |
| Lead | 7439-92-1 | TWA: 0.05 (mg/m³) from ACGIH (TLV)<br>TWA: 0.05 (mg/m³) from ACGIH<br>TWA: 0.1 (mg/m³) from NIOSH |
| Tin | 7440-31-5 | TWA: 2 STEL: 0.2 (mg/m³) from OSHA (PEL) [1997] Respirable.<br>TWA: 2 (mg/m³) from OSHA (PEL) [1993] Respirable.<br>TWA: 2 STEL: 0.2 (mg/m³) from ACGIH [1994] Respirable.<br>TWA: 2 (mg/m³) from NIOSH |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| **Physical state and appearance** | Solid. |
| **Molecular Weight** | Not applicable. |
| **pH (1% soln/water)** | Not applicable. |
| **Boiling Point** | Not available. |
| **Melting Point** | 58°C (136.4°F) |
| **Critical Temperature** | Not available. |
| **Specific Gravity** | 9.24 (Water = 1) |
| **Vapor Pressure** | Not available |
| **Vapor Density** | Not available. |
| **Volatility** | Not available. |
| **Odor Threshold** | Not available. |
| **Evaporation rate** | Not available. |
| **Viscosity** | Not available. |
| **Water/Oil Dist. Coeff.** | The product is insoluble in water and oil. |
| **Ionicity (in Water)** | Non-ionic. |
| **Dispersion Properties** | Is not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, acetone. |
| **Solubility** | Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone. |
| **Physical Chemical Comments** | Not available. |

| | |
|---|---|
| **Odor** | Odorless. |
| **Taste** | Not applicable. |
| **Color** | Silver-grey. |

## Section 10. Stability and Reactivity Data

| | |
|---|---|
| **Chemical Stability** | The product is stable. |
| **Conditions of Instability** | Over melting point, toxic metallic oxides may be evolved. |
| **Incompatibility with various substances** | Molten metal reacts violently with water. |
| **Hazardous Decomposition Products** | Not available. |
| **Hazardous Polymerization** | No. |

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## Section 11. Toxicological Information

| | |
|---|---|
| **Toxicity to Animals** | LD50: Not available.<br>LC50: Not available. |
| **Chronic Effects on Humans** | CARCINOGENIC EFFECTS: [LEAD]: Classified + (Proven) by OSHA, A3 (Proven for animal) by ACGIH, 2B (Possible for human) by IARC.<br>DEVELOPMENTAL TOXICITY: PROVEN [Lead]<br>The product may be toxic to blood, kidneys, liver, heart, upper respiratory tract, skin, eyes, the nervous system, the reproductive system, spleen, brain, digestive system, gastro-intestinal tract, lungs. |
| **Other Toxic Effects on Humans** | Fumes and/or dusts produced by this product may be hazardous in case of eye contact (irritant), of ingestion, of inhalation.<br>This product may be hazardous in case of skin contact (irritant, sensitizer). |
| **Special Remarks on Toxicity to Animals** | No additional remark. |
| **Special Remarks on Chronic Effects on Humans** | Human: LEAD crosses the placental barrier.<br>CHRONIC OVEREXPOSURE EFFECTS; Increase of LEAD LEVEL in blood, muscle soreness, metallic taste, abdominal cramps, headaches.<br>Overexposure to tin oxide fumes may result in benigne pneumoconiosis (stannosis).<br>Overexposure to fumes may cause irritation to the respiratory tract, digestive system and to the eyes. Repeated and prolonged contact with bare skin may cause irritation, dermatitis and/or an allergic reaction (sensitization) in susceptible individuals. |
| **Special Remarks on other Toxic Effects on Humans** | MOLTEN METAL can cause severe BURNS! |

## Section 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | Not available. |
| **BOD5 and COD** | Not available. |
| **Products of Biodegradation** | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| **Toxicity of the Products of Biodegradation** | The products of degradation are more toxic. |
| **Special Remarks on the Products of Biodegradation** | No additional remark. |

## Section 13. Disposal Considerations

| | |
|---|---|
| **Waste Disposal** | Recycle, if possible. Consult your local or regional authorities. |

## Section 14. Transport Information

| | |
|---|---|
| **DOT Classification** | Not a DOT controlled material (United States). |
| **Propper Shipping Name** | Not applicable. |
| **DOT Identification Number** | Not applicable. |
| **Packing Group** | Not applicable. |
| **Hazardous Substances Reportable Quantity** | Not available. |
| **Special Provisions for Transport** | Not applicable. |
| **TDG Classification** | Not controlled under TDG (Canada). |
| **IMDG Classification** | Not controlled under IMDG. |
| **IATA Classification** | Not controlled under IATA. |

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## Section 15. Regulatory Information

**Federal and State Regulations**

California prop. 65: This product contains [LEAD] for which the State of California has found to cause cancer, birth defects or other reproductive harm (female, male), which would require a warning under the statute.
California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (inhalation)

Rhode Island RTK hazardous substances: Lead; Tin;
Pennsylvania RTK: Indium; Lead; Tin;
Florida: Indium; Lead; Tin;
Minnesota: Indium; Lead; Tin;
Michigan critical material: Lead;
Massachusetts RTK: Indium; Lead; Tin;
New Jersey: Lead; Tin;

TSCA inventory: Bismuth; Indium; Lead; Tin;
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Lead: delayed health hazard;
SARA 313 toxic chemical notification and release reporting: Lead: 0.1%;
CERCLA hazardous substances: Lead: 10 lbs. (4.536 kg);

NOTE:
BE AWARE THAT THESE REGULATIONS MAY NOT APPLY TO THE PARTICULAR FORM IN WHICH THIS PRODUCT IS SOLD.
PLEASE CHECK WITH YOUR LOCAL AUTHORITIES.

**Other Classifications**

| | |
|---|---|
| **WHMIS (Canada)** | WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC). |
| **DSCL (EEC)** | R33- Danger of cumulative effects.<br>R61- May cause harm to the unborn child.<br>R62- Possible risk of impaired fertility.<br>R20/22- Harmful by inhalation and if swallowed. |

## Section 16. Other Information

**HMIS (U.S.A.)**

| | |
|---|---|
| * | 1 |
| | 0 |
| Reactivity | 0 |
| Personal Protection | j |

**National Fire Protection Association (U.S.A.)**


**References**

-ACGIH, Threshold Limit Values, 1994-1995. -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". -CFR29, OSHA's Permissible Exposure Limits, revision July, 1993. -CFR29, part 1910.1200, Hazard Communication. -Components' manufacturer's Material Safety Data Sheet. -CRC Handbook of chemistry and physics, 67 th edition, CRC Press inc., Boca Rota, Florida. -CSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical Substances. -NFPA, Fire Protection Guide to Chemical Hazards, 11th edition. -NIOSH, Pocket Guide to Chemical Hazards, revision June 1994. -TSCA (Toxic Substance Contral Act), Chemical Substance Inventory List, 1985. - IATA, Dangerous Goods Regulations, 37th edition (January 1, 1996) - LOUPRO vol. 13, Environmental Health & Safety Series II, Micromedex Inc.

**Other Special Considerations**

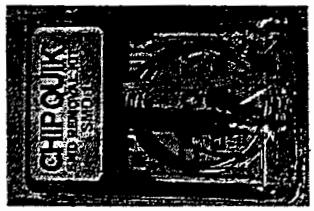
-ALL INGREDIENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % ( GREATER THAN 0.1 % FOR CARCINOGENS ) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.

**Validated by C. Gosselin on 5/20/98.**

**Verified by C. Gosselin.**

**Printed 8/20/99.**

**USA: Infotrac (800)535-5053**
**INTERNATIONAL: Infotrac (708)918-1900**
**CANADA: not available**




| SMD 1 CHIP QUIK SMD Removal Kit

Flux 1cc

# Material Safety Data Sheet

| Protective Clothing | HCS | DOT |
|---|---|---|
|  | HCS CLASS: DANGEROUS MAY CAUSE CANCER.<br>HCS CLASS: Irritating substance.<br>HCS CLASS: Target organ effects. |  |

## Section I. Product Identification and Uses

| | |
|---|---|
| Common/Trade name | Sn63 291AX |
| Synonyms | Sn63/Pb37 291 AX solder paste |
| Chemical name | Not applicable. |
| Chemical formula | Sn/Pb (metal) |
| Chemical family | Metallic/organic mixture (Inert material/Metal.) |
| Supplier | A.I.M. INC.<br>9100 Henri-Bourassa east, Montreal, Quebec, H1E 2S4<br>(514)494-2000 |
| Material uses | Industrial applications: Electronics industry. Soldering |

| | |
|---|---|
| CI# | Not applicable. |
| DSL | Not available. |
| CAS# | Not applicable. |
| Code | SPSn63291AX |
| Molecular weight | Not applicable. |
| Manufacturer | A.I.M. Inc.<br>9100 Henri Bourassa east, Montreal, Quebec, H1E 2S4<br>(514)494-2000 |

## Section IA. First Aid Measures

| | |
|---|---|
| Eye contact | Fumes may cause eye irritation. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention. |
| Skin contact | Prolonged and repeated contact with bear skin may cause irritation. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. |
| Hazardous skin contact | MOLTEN METAL causes SEVERE BURNS! In case of BURNS: DO NOT USE WATER. Cover with antiseptic ointment and steril gauze. Seek IMMEDIATE medical attention. |
| Slight inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Hazardous inhalation | Fumes: HARMFUL IF INHALED. Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform mouth-to-mouth resuscitation. SEEK IMMEDIATE MEDICAL ATTENTION. |
| Slight ingestion | Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek medical attention. |
| Hazardous ingestion | Fumes: Harmful if ingested. SEEK IMMEDIATE MEDICAL ATTENTION |

## Section II. Hazardous Ingredients

| Name | CAS # | % by Weight | TLV/PEL | $LC_{50}/LD_{50}$ |
|---|---|---|---|---|
| Lead | 7439-92-1 | 31.0-36.0 | TWA: 0.05 (mg/m³) from OSHA/NIOSH [1993].<br>TWA: 0.05 (mg/m³) from ACGIH [1991] | Not available |
| Diethylene glycol dibutyl ether | 112-73-2 | 1.0-5.0 | Not available | ORAL (LD50) mg/kg: Acute: 3900 (Rat). |

## Section III. Physical Data

| | |
|---|---|
| Physical state and appearance | Solid. (Paste.) |
| pH (1% soln/water) | Not applicable. |
| Odor threshold | Not available |
| Volatility | Not available |
| Melting point | 183°C (361.4°F) based on metal alloy Weighted average. 290.9°C (555.6°F) |

| | |
|---|---|
| Odor | Typical rosin |
| Taste | Not applicable |
| Color | Dark grey |

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| | |
|---|---|
| Boiling point | Not available. |
| Specific gravity | Weighted average: 5.36 (Water = 1) |
| Vapor density | Not available. |
| Vapor pressure | Not available. |
| Evaporation rate | Not applicable |
| Viscosity | 35-120 Kcps |
| Water/oil dist. coeff. | Insoluble in water and oil. |
| Ionicity (surface active agent) | Non-ionic. |
| Critical temperature | Not available. |
| Instability temperature | 330°C (626°F) based on data for: Lead. |
| Conditions of instability | Stable in normal conditions. Over melting point,will emit toxic lead and tin oxides fumes. |
| Dispersion properties | Is not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.<br>See solubility in diethyl ether. |
| Solubility | Partially soluble in diethyl ether.<br>Very slightly soluble in methanol.<br>Insoluble in cold water, hot water, n-octanol, acetone.<br>Partially soluble in isopropyl alcohol. |

## Section IV. Fire and Explosion Data

| | |
|---|---|
| The product is: | Combustible. |
| Auto-ignition temperature | Not available. |
| Fire degradation products | These products are carbon oxides (CO, CO2). Some metallic oxides. |
| Flash points | Not available. |
| Flammable limits | Not available. |
| Fire extinguishing procedures | SMALL FIRE: Use DRY chemicals, CO2, water spray or foam.<br>LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. |
| Flammability | Slightly flammable in presence of alkalis.<br>Very slightly flammable in presence of open flames and sparks, of heat, of oxidizing materials.<br>Non-flammable in presence of shocks, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of moisture.<br>Remark<br>Metallic part of product is nonflammable. The organic part may be flammable if exposed to direct flame. |
| Risks of explosion | Risks of explosion of the product in presence of static discharge: Not available<br>Non-explosive in presence of shocks, of heat.<br>Remark<br>No additional remark. |

## Section V. Reactivity Data

| | |
|---|---|
| Stability | The product is stable. |
| Hazardous decomp. products | Not available. |
| Degradability | Not available. |
| Products of degradation | These products are carbon oxides (CO, CO2). Some metallic oxides<br>The products of degradation are more toxic.<br>Remark<br>No additional remark. |

Continued on Next Page

## Sn63 291AX

| | |
|---|---|
| Corrosivity | Slightly corrosive in presence of copper.<br>Non-corrosive in presence of glass, of steel, of aluminum, of zinc, of stainless steel(304), of stainless steel(316). |
| | **Remark**<br>No additional remark. |
| Reactivity | Slightly reactive with oxidizing agents, acids, alkalis. |
| | **Remark**<br>Incompatible with halogens and halogen trifluorides. (Tin) |

## Section VI. Toxicological Properties

| | |
|---|---|
| Routes of entry | Ingestion. Inhalation. |
| TLV | **Lead**<br>TWA: 0.05 ($mg/m^3$) from OSHA/NIOSH [1993]<br>TWA: 0.05 ($mg/m^3$) from ACGIH [1991]<br>**Tin**<br>TWA: 2 ($mg/m^3$) from ACGIH [1982]<br>TWA: 2 ($mg/m^3$) from OSHA/NIOSH [1993]<br><br>Consult local authorities for acceptable exposure limits. |
| Toxicity to animals | Not available. |
| | **Remark**<br>No additional remark. |
| Chronic effects on humans | FUMES: Extremely dangerous in case of ingestion, of inhalation. Very dangerous in case of eye contact (irritant). Slightly dangerous in case of skin contact (irritant, sensitizer).<br>CARCINOGENIC EFFECTS: Classified 2A by IARC [ Lead]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified 2A by IARC [ Lead].<br>The substance is toxic to lungs, liver and reproductive system. Repeated or prolonged exposure to the substance can produce target organs damage. |
| | **Remark**<br>Overexposure to fumes may cause severe irritation to the respiratory tract and to the eyes. Overexposure to tin oxide fumes may result in benigne penumoconiosis (stannosis). |
| Acute effects on humans | FUMES: Very dangerous in case of ingestion, of inhalation. Very dangerous in case of eye contact (irritant). Slightly dangerous in case of skin contact (irritant, sensitizer).<br>This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering, and itching. |
| | **Remark**<br>Contact with skin can cause irritation. Contact with eyes can cause irritation. Fumes may irritate eyes, digestive system and respiratory tract. |

## Section VII. Preventive Measures

| | |
|---|---|
| Waste disposal | Recycle to process, if possible. Consult your local or regional authorities. |
| Storage | Keep container dry. Keep in a cool place. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room. |
| Precautions | Keep locked up. Keep away from heat. Keep away from sources of ignition. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles as oxidizing agents, acids, alkalis. |
| Small spill and leak | MOLTEN METAL: Let cool before picking up and returning to process or recycling. OTHER: Use appropriate tools to put the spilled solid in a container reserved to that effect. |
| Large spill and leak | Our data base contains no additional information in case of a large spill and/or a leak of the product. |
| Protective clothing in case of large spill | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |

*Continued on Next Page*

## Section VIII. Classification

**DOT**

Not a DOT controlled material (United States).

Not applicable (PIN and PG).

Remark

Not applicable.

**HCS**

HCS CLASS: DANGEROUS MAY CAUSE CANCER.
HCS CLASS: Irritating substance.
HCS CLASS: Target organ effects.

Remark

No additional remark.

## Section IX. Protective Clothing

Splash goggles. Lab coat. Gloves (disposable, vinyl). Fume respirator. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## Section X. Other Information

**References**

-Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". -CFR29, OSHA's Permissible Exposure Limits, revision July, 1993. -CFR29, part 1910.1200, Hazard Communication. -Components' manufacturer's Material Safety Data Sheet. -CSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical Substances. -Material safety data sheet issued by: la Commission de la Santé et de la Sécurité du Travail du Québec. -NFPA, Fire Protection Guide to Chemical Hazards, 11th edition. -NIOSH, Pocket Guide to Chemical Hazards, revision June 1994. -TSCA (Toxic Substance Contral Act), Chemical Substance Inventory List, 1985.

-OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). -The following component(s) of this product is(are) subject to the reporting requirements of section 313 of Title III of SARA (Superfund Amendments and Reauthorization Act, 1988) and 40 CFR Part 372: LEAD. -This product is not regulated as hazardous by DOT, IMO, or IATA. -TSCA (Toxic Substance Control Act): The components of this product are listed on the TSCA Inventory. -ALL INGREDIENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % ( GREATER THAN 0.1 % FOR CARCINOGENS ) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.

Validated by C. Gosselin on 6/18/96.

Verified by C. Gosselin.

Printed 6/18/96.

Emergency phone: Infotrac (800)535-5053 (USA), (708)918-1900 (International) ; (514)494-2000 (Canada)