# SAFETY DATA SHEET

KA Casting Alloy

## Section 1. Identification

**GHS product identifier** : KA Casting Alloy

**Reference number** : Not available.

**Other means of identification** : Not applicable

**Product type** : Solid. [Wire/Bar, Massive form]

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Supplier's details** :

AIM
9100 Henri Bourassa East
Montreal, QC
H1E 2S4
514-416-3333

In the United States:
AIM
25 Kenney Drive
Cranston, RI 02920
(800) CALL-AIM

In México
AIM Soldadura de México
Circuito Interior Norte # 460
Parque Industrial Salvarcar
Ciudad Juárez, Chih.
(656) 630-0032

**Emergency telephone number (with hours of operation)** :

INFOTRAC
North America: (800) 535-5053
International: (352) 323-3500

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** :

CARCINOGENICITY - Category 1
TOXIC TO REPRODUCTION - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** :

May cause cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention** :

Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Do not breathe dust. Do not handle until all safety precautions have been read and understood.

## Section 2. Hazards identification

**Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not applicable

| Ingredient name | % | CAS number |
|---|---|---|
| Tin | ≥50 - ≤75 | 7440-31-5 |
| Lead | ≥25 - ≤50 | 7439-92-1 |
| antimony | ≤5 | 7440-36-0 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Get medical attention.

**Inhalation** : Not applicable.

**Skin contact** : Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Cuts should be treated promptly and covered.

**Ingestion** : Not applicable.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Not applicable.

**Inhalation** : Not applicable.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Not applicable.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

# Section 4. First aid measures

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

## Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : No special protection is required.

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : No specific hazard.

## Methods and materials for containment and cleaning up

**Small spill** : Restack safely. Take care with items that are sharp or heavy.

**Large spill** : Restack safely. Take care with items that are sharp or heavy. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Take care with items that are sharp or heavy.

# Section 7. Handling and storage

**Advice on general occupational hygiene** : Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store locked up. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Tin | **ACGIH TLV (United States, 1/2023). [Tin and inorganic compounds, excluding Tin hydride and indium tin oxide as Sn]**<br>TWA: 2 mg/m³, (as Sn) 8 hours. Form: Inhalable fraction<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 2 mg/m³ 10 hours.<br>**OSHA PEL (United States, 5/2018). [Tin, inorganic compounds (except oxides) (as Sn)]**<br>TWA: 2 mg/m³, (as Sn) 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989). [Tin, inorganic compounds (except oxides) as Sn]**<br>TWA: 2 mg/m³, (measured as Sn) 8 hours. Form: Inorganic |
| Lead | **ACGIH TLV (United States, 1/2023). [Lead and inorganic compounds as Pb]**<br>TWA: 0.05 mg/m³, (as Pb) 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989). [Lead, inorganic (as Pb)]**<br>TWA: 50 µg/m³, (as Pb) 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>TWA: 0.05 mg/m³ 8 hours.<br>**OSHA PEL (United States, 5/2018). [Lead inorganic (as Pb)]**<br>TWA: 50 µg/m³, (as Pb) 8 hours. |
| antimony | **ACGIH TLV (United States, 1/2023). [Antimony and compounds as Sb]**<br>TWA: 0.5 mg/m³, (as Sb) 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989). [Antimony and compounds (as Sb)]**<br>TWA: 0.5 mg/m³, (as Sb) 8 hours.<br>**NIOSH REL (United States, 10/2020). [antimony]**<br>TWA: 0.5 mg/m³ 10 hours.<br>**OSHA PEL (United States, 5/2018). [Antimony and compounds (as Sb)]**<br>TWA: 0.5 mg/m³, (as Sb) 8 hours. |

**Appropriate engineering controls** : No special ventilation requirements. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Not applicable.

## Section 8. Exposure controls/personal protection

**Individual protection measures**

**Hygiene measures** : Wash thoroughly after handling.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** : Use strong, cut-resistant gloves suitable for handling metals.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Not applicable.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Solid. [Wire/Bar, Massive form]

**Color** : silver-grey

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Not applicable.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Not applicable.

**Vapor pressure** : Not available.

**Vapor density** : Not applicable.

**Relative density** : Not available.

**Solubility** : Not available.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Not applicable.

**Decomposition temperature** : Not available.

**Viscosity** : Not applicable.

**Flow time (ISO 2431)** : Not available.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

# Section 10. Stability and reactivity

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| antimony | LD50 Oral<br>LD50 Oral | Rat<br>Rat | 100 mg/kg<br>7000 mg/kg | -<br>- |

### Irritation/Corrosion

Not available.

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| Lead | - | 2B | Reasonably anticipated to be a human carcinogen. |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Lead | Category 2 | - | - |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

## Potential acute health effects

**Eye contact** : Not applicable.

**Inhalation** : Not applicable.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Not applicable.

# Section 11. Toxicological information

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : May damage fertility.

## Numerical measures of toxicity

### Acute toxicity estimates

| Route | ATE value |
|---|---|
| Oral | 14285.71 mg/kg |

# Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Lead | Acute EC50 105 ppb Marine water | Algae - Chaetoceros sp. - Exponential growth phase | 72 hours |
| | Acute EC50 0.489 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 8000 µg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute LC50 530 µg/l Fresh water | Crustaceans - Ceriodaphnia reticulata | 48 hours |
| | Acute LC50 0.594 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.44 ppm Fresh water | Fish - Cyprinus carpio - Juvenile | 96 hours |

# Section 12. Ecological information

| | | | |
|---|---|---|---|
| antimony | Chronic NOEC 0.25 mg/l Marine water<br>Chronic NOEC 0.03 µg/l Fresh water<br>Acute LC50 18000 µg/l Fresh water<br>Acute LC50 22 mg/l Fresh water | (Fledgling, Hatchling, Weanling)<br>Algae - Ulva pertusa<br>Fish - Cyprinus carpio<br>Daphnia - Daphnia magna<br>Fish - Pimephales promelas | <br>96 hours<br>4 weeks<br>48 hours<br>96 hours |

**Persistence and degradability**

Not available.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

# Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **UN proper shipping name** | - | - | - | - | - | - |
| **Transport hazard class(es)** | - | - | - | - | - | - |
| **Packing group** | - | - | - | - | - | - |
| **Environmental hazards** | No. | No. | No. | No. | No. | No. |
| **Additional information** | **Reportable quantity** 24.096 lbs / 10.94 kg. Package sizes shipped in quantities less than the product reportable quantity are not | - | - | - | - | - |

## Section 14. Transport information

| | | | | | | |
|---|---|---|---|---|---|---|
| | subject to the RQ (reportable quantity) transportation requirements. | | | | | |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### State regulations

**Massachusetts** : The following components are listed: TIN; LEAD; antimony

**New York** : The following components are listed: Lead; Antimony

**New Jersey** : The following components are listed: TIN; LEAD; antimony

**Pennsylvania** : The following components are listed: TIN; LEAD COMPOUNDS; antimony

### California Prop. 65

**WARNING**: This product can expose you to 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.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---|---|---|---|---|
| Lead | Yes. | Yes. | Yes. | Yes. |

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

| Ingredient name | List name | Status |
|---|---|---|
| Lead (Pb) | Heavy metals - Annex 1 | Listed |

### International lists

# Section 15. Regulatory information

## National inventory

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Europe** :

**Japan** : **Japan inventory (CSCL)**: Not determined.
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined

**New Zealand** : All components are listed or exempted.

**Philippines** : All components are listed or exempted.

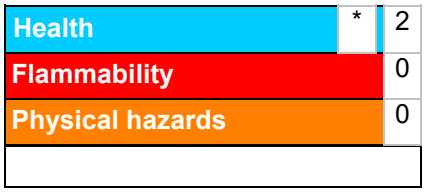
**Republic of Korea** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Turkey** : Not determined.

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




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




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**Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| CARCINOGENICITY - Category 1<br>TOXIC TO REPRODUCTION - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method<br>Calculation method<br>Calculation method |

## History

**Date of printing** : 8/26/2026

**Date of issue/Date of revision** : 8/26/2026

**Date of previous issue** : No previous validation

**Version** : 0.01

# Section 16. Other information

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**References** : Not available.

**Indicates information that has changed from previously issued version.**

## Notice to reader

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.**
**Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**