



Safety Data Sheet

1. Identification of the substance/mixture and supplier

| | |
|--------------------|--|
| Product Identifier | ALUMINUM PELLETS (UNALLOYED ALUMINUM) Pxxxx.x SERIES ALLOYS |
| Revision date | October 14, 2019 |
| Intended use | Chemical solutions, alloy element for nickel, zinc, titanium and deox element for steel. |
| Synonyms | Pellets, Shot, Pxxxx.x series unalloyed Aluminum |
| Manufactured by: | Columbia Specialty Metals 1600 State Route 3543 North Hawesville, Kentucky 42348 Phone: 270 927-0937 Fax: 270 927-0938 |
| Emergency Phone: | USA 1-800-567-7455 (Chemtrec) |

2. Hazards Identification

Non-hazardous in solid form when used as intended.

Label elements

Labelling according to Regulation (EC) No 1272/2008: N/A

Hazard pictograms: N/A

Signal word: N/A

Hazard statements: N/A

WHMIS classification: Not a dangerous product according to HPR classification criteria.

3. Composition and Ingredients

| Designation | CAS Number | EC number | Content (%) |
|----------------|------------|-----------|-------------|
| Aluminum (Al) | 7429-90-5 | 231-072-3 | 95 – 100 |
| Silicon (Si) | 7440-21-3 | 231-130-8 | 0.50 max |
| Iron (Fe) | 7439-89-6 | 231-096-4 | 2.00 max |
| Copper (Cu) | 7440-50-8 | 231-159-6 | 0.10 max |
| Manganese (Mn) | 7439-96-5 | 231-105-1 | 0.10 max |
| Magnesium (Mg) | 7439-95-4 | 231-104-6 | 0.10 max |
| Nickel (Ni) | 7440-02-0 | 231-111-4 | 0.10 max |
| Zinc (Zn) | 7440-66-6 | 231-175-3 | 0.10 max |
| Lead (Pb) | 7439-92-1 | 231-100-4 | 0.10 max |
| Tin (Sn) | 7440-31-5 | 231-141-8 | 0.10 max |

4. First Aid Response

Inhalation: In case of discomfort, remove to a ventilated area. If discomfort persists, consult a physician.

Skin contact: Generally, the product does not irritate the skin.

Eyes contact: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort persists, consult a physician.

Ingestion: If symptoms persist, consult a physician.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire and Explosion Data

In solid form there is no fire or explosion hazard.

Extinguishing Media: In the case this product is involved in fires, use a Class D dry-powder extinguisher. Do not use water, moist sand, or halogenated extinguisher media.

If this product is involved in a fire, metal oxide fume can be released. In this case, advice for protective equipment includes NIOSH-approved respiratory protection/breathing apparatus and fire/flame retardant clothing.

6. Accidental Release Measures

Solid form: Recycle product if possible.

Do not allow the material to be released into the environment without official permits.

Do not allow the product to enter drains, sewage systems, or other water courses.

Do not allow the material to penetrate the ground or soil.

Methods and materials for containment and cleanup: pick up mechanically.

7. Handling and Storage

Storage: Product should be kept dry.

Handling precautions: Hot and cold metal are not visually different and will not present a warning color change.

Protection against explosion or fires: No special requirements.

Do not store together with acids or oxidizing agents.

8. Exposure Controls and Personal Protection

Personal Protection: Follow typical protective practices for work clothing and safety glasses.

Breathing equipment: Not required

Hand protection: Not required

Components with limit values that require monitoring at the workplace:

Exposure Limits

| Designation | C.A.S. No. | ACGIH TWA/TLV | OSHA PEL TWA |
|-------------------|------------|---|-----------------------------|
| Aluminum (dust) | 7429-90-5 | 1 mg/m ³ (respirable matter) | 15 mg/m ³ |
| Silicon (dust) | 7440-21-3 | N/A | 15 mg/m ³ |
| Manganese (dust) | 7439-96-5 | 0.02 mg/m ³ (respirable matter) | 5 mg/m ³ (PEL-C) |
| Magnesium | 7439-95-4 | N/A | N/A |
| Iron (oxide fume) | 7439-89-6 | 5mg/m ³ (respirable matter) | 10 mg/m ³ |
| Copper (dust) | 7440-50-8 | 1 mg/m ³ | 1 mg/m ³ |
| Zinc (oxide fume) | 7440-66-6 | 2 mg/m ³ (respirable matter) | 5 mg/m ³ |
| Lead | 7439-92-1 | 0.05 mg/m ³ | 0.05 mg/m ³ |
| Nickel | 7440-02-0 | 1.5 mg/m ³ (inhalable particulate) | 1 mg/m ³ |
| Tin | 7440-31-5 | 2 mg/m ³ (inhalable particulate) | 2 mg/m ³ |

9. Physical Properties

| | | | |
|--------------------------|-------------------------|--------------------------|-----|
| Appearance: | Gray to Silver Odorless | Specific gravity: | 2.7 |
| Melting point: | 1,050-1,220 F | pH: | N/A |
| Boiling point: | 4,221 F | Flash point: | N/A |
| Vapor pressure: | N/A | NFPA fire code: | 0 |
| Vapor density: | N/A | Oxidizing prop.: | N/A |
| Water solubility: | N/A | Explosive prop.: | N/A |
| Evaporation rate: | N/A | | |

10. Stability and Reactivity

Metal is stable and non-reactive under normal of use, storage and transport.

Heat generation and release of flammable hydrogen gas may occur when fines, chip or dust are mixed with halogenated acids, halogen solvents, bromates, iodates or ammonium nitrate.

11.Toxicological Information

Aluminum in solid form does not present any acute health effects.

Skin irritation or corrosion: Slight risk in case of skin contact.

Eye irritation: May cause irritation.

ACGIH A4: Not classifiable as a human carcinogen. Not enough data to classify.

RTECS No.: BD0330000

12.Ecological Information

Eco toxicity: Has not been demonstrated using standard OECD protocol.

Mobility: Aluminum is not mobile in the environment unless contact is made with an aqueous environment with a ph below 5.5 or above 8.5.

Biodegradability: Not relevant for materials.

13.Disposal Methods

Reuse or recycle material wherever possible.

Material may be disposed of at an industrial landfill.

Disposal of uncleaned packaging should be made according to official regulations.

14. Transport Information

General Shipping Information (Not regulated)

UN-number: N/A

UN proper shipping name: N/A

Transport hazard class: N/A

Packing group: N/A

Environmental hazards: N/A

Special precautions for user: N/A

15. Regulatory information

USA Regulation(s): Section 313: Product contains trace amounts of chemical(s) subject to the requirements of section 313 of the Emergency Planning and Right-To-Know Act (EPCRA Title III of the SARA) and of 40 CFR 372.

Canadian Regulation: WHMIS Classification D2B Toxic material causing other toxic effects.

| | | |
|----------------------------|--------------------|------|
| EU Classifications: | Warning Symbol(s): | None |
| | Risk Phrase(s): | None |
| | Safety Phrase(s): | None |

16. Other Information

The information in this safety data sheet was obtained from sources believed to be reliable, but it is not guaranteed. This information may be used in a manner which is beyond our knowledge and /or control. Therefore, this information is provided for advice only, with no representation of warranty, either express or implied.