

SAFETY DATA SHEET

1.0 IDENTIFICATION

- 1.1 GHS product identifier:** N-20 Filler
- 1.2 Other means of identification:** Aluminum Grain or Shot
- 1.3 Recommended use of the chemical and restrictions on use:** N/A
- 1.4 Supplier's details:** GLOB-AL CORPORATION
PO BOX 299
PLYMOUTH IN 46563 USA
INFORMATION PHONE NUMBER: (248) 588-2270
- 1.5 Emergency phone number:** (703) 527-3887(Call Collect)

2.0 HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
N/A
- 2.2 GHS label elements:**
N/A
- 2.3 Other hazards which do not result in classification:** N/A
- 2.4 Hazards Material Information System (United States):**

Health	1
Flammability	0
Physical Hazard	0

Hazard Codes: *=Chronic Hazard 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances**
- 3.1.1 Chemical Identity:** Aluminum, Pellets or Granules
- 3.1.2 Common Name:** Aluminum Grain or Shot
- 3.1.3 CAS Number and other unique identifiers:** 7429-90-5
- 3.1.4 Impurities and stabilizing additives:** N/A

4.0 FIRST-AID MEASURES

- 4.1 Description of necessary first-aid measures:**
- Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- Dermal Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water.
- Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- 4.2 Most Important symptoms/effects, acute and delayed:**
- Inhalation:** Not expected to be a health hazard.
- Ingestion:** Not expected to be a health hazard.
- Skin Contact:** No adverse effects expected.
- Eye Contact:** No adverse effects expected.
- Chronic Exposure:** No adverse effects expected.
- Aggravation of Pre-existing Conditions:** No adverse health effects expected.
- See section 8-EXPOSURE CONTROLS/PERSONAL PROTECTION for exposure limits and recommended protective equipment. See section 11-TOXICOLOGICAL INFORMATION for any further information.
- 4.3 Indication of immediate medical attention and special treatment needed, if necessary:** N/A

5.0 FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:**
Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
- 5.2 Specific hazards arising from the chemical:**
Flash Point: N/A. Emits toxic fumes under fire conditions.
- 5.3 Special protective actions for fire-fighters:**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6.0 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

6.2 Methods and materials for containment and clean up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7.0 HANDLING AND STORAGE**7.1 Precautions for safe handling:**

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store in a cool dry place.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Component	CAS No.	Percent	Exposure Limits	Source
Metal Dusts (general)	7429-90-5	>99%	10 mg/m ³ TWA 15 mg/m ³ PEL, 8 hr 2 mg/m ³ TWA (Aluminum Dust)	ACGIH OSHA NIOSH

8.2 Appropriate engineering controls:

Ensure adequate ventilation to prevent accumulation of process dusts.

8.3 Individual protection measures, such as personal protective equipment:

Eye protection: Safety glasses with side shields or goggles are always recommended

Hand protection: Gloves suitable for blocking harmful dusts may be required

Respiratory protection: A dust respirator rated as ANSI N95 compliant is recommended for applications that may liberate aluminum dusts or wherever adequate ventilation is not present.

Protective clothing: No unusual protective clothing required

Work and hygienic practices: Wash hands after shift and before using the toilet, eating or smoking.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance (physical state, color, etc.): Metallic pellets or granules, Silver to Grey

9.2 Odor: None

9.3 Odor threshold: N/A

9.4 pH: N/A

9.5 Melting point/freezing point: N/A

9.6 Initial boiling point and boiling range: N/A

9.7 Flash Point: N/A

9.8 Evaporation rate: N/A

9.9 Flammability (solid, gas): N/A

9.10 Upper/lower flammability or explosive limits: LFL-N/A; UFL-N/A

9.11 Vapor pressure: N/A

9.12 Vapor Density: N/A

9.13 Relative density (specific gravity): 2.7

9.14 Solubility(ies): Not water soluble

9.15 Partition coefficient; n-octanol/water: N/A

9.16 Auto-ignition temperature: 1400°C

9.17 Decomposition temperature: N/A

9.18 Viscosity: N/A

10.0 STABILITY AND REACTIVITY

10.1 Reactivity: N/A

10.2 Chemical stability: Conditions of Instability: Air and moisture sensitive

10.3 Possibility of hazardous reactions: Will not occur

10.4 Conditions to avoid: N/A

10.5 Incompatible materials: Oxidizing agents

10.6 Hazardous decomposition products: Aluminum oxide

11.0 TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure: skin, eye, inhalation, ingestion

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Skin Contact: May cause skin irritation

Skin Absorption: May be harmful if absorbed through the skin

Eye Contact: May cause eye irritation

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract and may be harmful if inhaled.

Ingestion: May be harmful if swallowed

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

N/A

11.4 Numerical measures of toxicity:

N/A

12.0 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

N/A

12.2 Persistence and degradability:

This material contains substances that show little to no evidence of biodegradability. Great care should be taken to prevent its release into the environment.

12.3 Bioaccumulative potential: N/A

12.4 Mobility in soil: N/A

12.5 Other adverse effects: N/A

13.0 DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

This material may be safely landfilled. Check local disposal regulations.

14.0 TRANSPORT INFORMATION

14.1 UN number: Not Regulated

14.2 UN proper shipping name: Aluminum Granules (Not Regulated)

14.3 Transport hazard class(es): Not Regulated

14.4 Packing group, if applicable: Not Regulated

14.5 Environmental hazards: N/A

14.6 Transport in bulk: N/A

14.7 Special precautions for user: N/A

15.0 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations:

TOXIC SUBSTANCES CONTROL ACT (TSCA)-

All Substances Listed

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

Irritant

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate (acute)

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are

None

CALIFORNIA PROPOSITION 65: known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")

This material contains no materials known by the State of California to cause Cancer or reproductive harm.

CANADA REGULATIONS

DSL INVENTORY: This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List

WHIMS HAZARD CLASSIFICATION: None

16.0 OTHER INFORMATION

16.1 Date of Preparation: 08/29/2011

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. 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 which exist.