

1. Product and Company Identification

Material name 120 ATOMIZED POWDER
Version # 16
Revision date 08-05-2011
Chemical description aluminum
CAS # Mixture
Product code 120.AT
Manufacturer information Eckart America Corporation
830 East Erie Street
Painesville, OH 44077-074
General Assistance 866-458-7837
Emergency Contact, CHEMTREC 1-703-527-3887 (International)
Emergency Contact, CHEMTREC 800-424-9300

2. Hazards Identification

Emergency overview May cause breathing disorders and lung damage. Prolonged exposure may cause chronic effects. Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air.

Potential health effects

Eyes Contact may irritate eyes.
Skin Contact with skin may cause irritation.
Inhalation May cause breathing disorders and lung damage.
Ingestion May be harmful if swallowed. Not a likely route of entry.

Target organs Eyes. Respiratory system. Skin.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Aluminum	7429-90-5	98 - 100
Non-hazardous and other components below reportable levels		> 0.1

4. First Aid Measures**First aid procedures**

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact Wash off with warm water and soap. Get medical attention if irritation develops or persists.
Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without medical advice.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Dusts may form an explosive mixture with air. Water Reactive. Not a fire hazard.

Extinguishing media

Suitable extinguishing media Confining and smothering metal fires is preferable rather than applying water. DRY sand, sodium chloride powder, graphite powder or Met-L-X powder. Use any media suitable for the surrounding fires. Do not use water.
Unsuitable extinguishing media Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment. Carbon dioxide (CO₂). Foam.

Protection of firefighters

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment and precautions for firefighters

Firefighters should wear full protective gear. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Cool containers with flooding quantities of water until well after fire is out.

Hazardous combustion products

May include oxides of carbon.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Ventilate closed spaces before entering. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. Clean up in accordance with all applicable regulations.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use only with adequate ventilation. Avoid prolonged exposure. May form flammable dust-air mixtures. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. When using do not smoke.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Store in a closed container away from incompatible materials. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Never allow product to get in contact with water during storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Aluminum (7429-90-5)

Type

TWA

Value

1 mg/m³

Form

Respirable fraction.

U.S. - OSHA

Components

Aluminum (7429-90-5)

Type

PEL

Value

15 mg/m³
5 mg/m³

Form

Total dust.
Respirable dust.

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Skin protection

Wear suitable protective clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations

When using do not smoke. Avoid contact with skin, eyes and clothing.

9. Physical & Chemical Properties

Appearance

Not available.

Color

silver metallic

Odor

characteristic

Physical state

Solid.

Form	Powder.
Boiling point	4220.6 °F (2327 °C) estimated
Flash point	Not Applicable
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Specific gravity	2.5 - 2.7 Calculated
Relative density	20.86 - 22.53 lbs/gal calculated
Auto-ignition temperature	1094 °F (590 °C)
VOC	0 % estimated
Bulk density	Calculated
Percent volatile	0 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions. Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Dust may form explosive mixture in air.
Incompatible materials	Acids. Caustics. This product is incompatible with nitrates. Contact with water liberates highly flammable gases.

11. Toxicological Information

Sensitization	Not expected to be hazardous by OSHA criteria.
Local effects	Contact may irritate or burn eyes.
Chronic effects	Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.

US ACGIH Threshold Limit Values: A4 carcinogen

Aluminum (7429-90-5)

A4 Not classifiable as a human carcinogen.

Skin corrosion/irritation	Not expected to be hazardous by OSHA criteria.
Reproductive effects	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicological data

Components

Aluminum (7429-90-5)

Test Results

LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss):
0.12 mg/l 96.00 hours

* Estimates for product may be based on additional component data not shown.

Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.

13. Disposal Considerations

Not available.

14. Transport Information

DOT

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Aluminum (7429-90-5) 1.0 %

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - Yes

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Massachusetts RTK - Substance: Listed substance

Aluminum (7429-90-5) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Aluminum (7429-90-5) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Aluminum (7429-90-5) Listed.

US - Rhode Island RTK - Hazardous Substances: Listed substance

Aluminum (7429-90-5) Listed.

16. Other Information

HMIS® ratings Health: 2
Flammability: 1
Physical hazard: 2
Personal protection: B

Issue date 08-05-2011

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.