




Aluminum Nickel Alloy Powder		Pricing >
Signal Word	Danger	
Hazard Statements	H228-H317-H351	
Hazard Codes	F,Xn	
Risk Codes	15-40-43	
Safety Statements	36/37-43	
RTECS Number	N/A	
Transport Information	UN 3089 4.1/PG 2	
WGK Germany	3	
GHS Pictograms	GHS02 Flame  GHS07 Exclamation Point  GHS08 Health Hazard 	

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SAFETY DATA SHEET

Date Accessed: 04/26/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12635-29-9

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Skin sensitization Category 1

Carcinogenicity Category 2

Flammable solid Category 1

Label elements

Signal word Warning

Hazard statements May cause an allergic skin reaction

Suspected of causing cancer

Flammable solid



Precautionary Statements - Prevention Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

Ground/bond container and receiving equipment

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for

extinction
Precautionary Statements - Storage Store locked up
Precautionary Statements - Disposal Dispose of
contents/container to an approved waste disposal
plant
Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC) N/A
Other Information
NFPA
Health hazards 2
Flammability 0
Stability 3
Physical and chemical
properties
-
HMIS
Health hazards 2
Flammability 0
Physical hazards 3
Personal protection -

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 12635-27-7
Molecular Weight 85.67
Formula AlNi
Chemical Name CAS No Weight % Oral LD50 Dermal
LD50 Inhalation LC50
Aluminum-nickel catalyst 12635-27-7 >98 - - -

SECTION 4. FIRST AID MEASURES

First Aid Measures
General advice Immediate medical attention is
required. In case of accident or unwellness, seek
medical
advice immediately (show directions for use or safety
data sheet if possible).
Eye contact Immediately flush with plenty of water.
After initial flushing, remove any contact lenses and
continue flushing for at least 15 minutes. Keep eye
wide open while rinsing. Call a physician
immediately.
Skin Contact Wash off immediately with plenty of
water. Wash off immediately with soap and plenty of
water. Consult a physician if necessary.
Inhalation Remove to fresh air Avoid direct contact
with skin. Use barrier to give mouth-to-mouth
resuscitation Immediate medical attention is required
If not breathing, give artificial

respiration Oxygen or artificial respiration if needed
Call a physician
Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider Remove all sources of ignition.
Most important symptoms and effects, both acute and delayed
Symptoms No data available.
Indication of any immediate medical attention and special treatment needed
Note to physicians May cause sensitization of susceptible persons.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media None.
Specific hazards arising from the chemical
Specific hazards arising from the chemical
In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Hazardous combustion products No data available.
Explosion data
Sensitivity to Mechanical Impact No data available.
Sensitivity to Static Discharge No data available.
Protective equipment and precautions for firefighters
Protective equipment and precautions for firefighters
Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal

protective equipment as required.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system.

See Section 12 for additional

Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate

containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak

up with inert absorbent material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep

containers tightly closed in a cool, well-ventilated place. Store at room temperature.

Incompatible materials None known based on information supplied.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does

not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations.

Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance powder

Odor No data available

Property

pH No data available

Melting point/freezing point No data available

Boiling point No data available

Flash point No data available

Density No data available

Evaporation rate No data available

Upper flammability limits No data available

Lower flammability limit No data available

Vapor pressure No data available

Vapor density No data available

Specific gravity No data available

Water solubility No data available

Solubility in other solvents No data available

Partition coefficient No data available

Autoignition temperature No data available

Decomposition temperature No data available

Kinematic viscosity No data available

Explosive properties No data available

Oxidizing properties No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity N/A

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization No data available.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products None known based on information supplied.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available.

Eye contact No data available.

Skin Contact No data available.

Ingestion No data available.

Information on toxicological effects

Symptoms No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

Numerical measures of toxicity - Product Information

Unknown acute toxicity No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability No data available.

Bioaccumulation No data available.

Mobility No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

Other Information Waste codes should be assigned by the user based on the application for which the

product
was used.
US EPA Waste Number D001

SECTION 14. TRANSPORT INFORMATION

DOT
UN/ID no UN3089
Hazard Class 4.1
Packing Group II
Proper shipping name Metal powders, flammable,
n.o.s.
Description UN3089, Metal powders, flammable,
n.o.s., 4.1, II
Emergency Response Guide Number 170
IMDG
UN/ID no UN3089
Hazard Class 4.1
Packing Group II
Proper shipping name Metal powder, flammable,
n.o.s.
Description UN3089, Metal powder, flammable, n.o.s.,
4.1, II
EmS-No F-G, S-G
IATA
UN/ID no UN3089
Hazard Class 4.1
Packing Group II
Proper shipping name Metal powder, flammable,
n.o.s.
Description UN3089, Metal powder, flammable, n.o.s.,
4.1, II

SECTION 15. REGULATORY INFORMATION

International Inventories
All of the components in the product are on the
following Inventory lists
No data available
X - Listed
TSCA - United States Toxic Substances Control Act
Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances
List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing
Chemical Substances/European List of Notified
Chemical Substances
ENCS - Japan Existing and New Chemical
Substances
IECSC - China Inventory of Existing Chemical

Substances
KECL - Korean Existing and Evaluated Chemical
Substances
PICCS - Philippines Inventory of Chemicals and
Chemical Substances
US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments
and Reauthorization Act of 1986 (SARA). This product
does not contain any
chemicals which are subject to the reporting
requirements of the Act and Title 40 of the Code of
Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard Yes
CWA (Clean Water Act)
This product does not contain any substances
regulated as pollutants pursuant to the Clean Water
Act (40 CFR 122.21 and 40
CFR 122.42).
US State Regulations
California Proposition 65
This product does not contain any Proposition 65
chemicals.
U.S. State Right-to-Know Regulations
This product does not contain any substances
regulated by state right-to-know regulations

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No.
1907/2006 (REACH). The above information is
believed to be correct but does not purport to be all
inclusive and shall be used only as a guide. The
information in this document is based on the present
state of our knowledge and is applicable to the
product with regard to appropriate safety precautions.
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