

# SDS

## SAFETY DATA SHEET

Oakwood Products, Inc  
730 Columbia HWY N  
Estill, SC 29918  
[www.oakwoodchemical.com](http://www.oakwoodchemical.com)

**Phone Numbers:**

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

---

**MATERIAL IDENTIFICATION**

NAME: **Aluminium-nickel Raney-type alloy powder**  
CAS#: [12635-29-9]  
CAT#: 046881  
For R&D use only.

---

**HAZARDS IDENTIFICATION****GHS Classification**

Substances And Mixtures Which, In Contact With Water, Emit Flammable Gases (Category 3)  
Acute toxicity, oral (Category 4)  
Skin corrosion/irritation (Category 2)  
Sensitisation, Skin (Category 1)  
Serious eye damage/eye irritation (Category 2A)  
Respiratory tract irritation (Category 3)  
Carcinogenicity (Category 2)  
Specific target organ toxicity, single exposure (Category 1)

**GHS Label elements, including precautionary statements****Pictograms****Signal Word**

Danger

**Hazard Statement(s)**

H261	In contact with water releases flammable gas
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure (Respiratory tract, skin)

**Precautionary Statement(s)**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see ... on this label).
P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

---

**COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : AlNi  
Molecular Weight : 85.69

CAS	Description	Concentration
12635-29-9	Aluminium-nickel Raney-type alloy powder	

---

**FIRST AID MEASURES****In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**In case of skin contact**

Wash thoroughly with soap and plenty of water. Seek medical attention.

**If inhaled**

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**If swallowed**

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

---

## **FIRE-FIGHTING MEASURES**

### **Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

### **Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### **Unusual fire and explosion hazards/decomposition of product**

emits toxic fumes under fire conditions.

---

## **ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

### **Environmental precautions**

Prevent further leakage if safe to do so.

### **Methods and materials for containment and clean up**

Absorb spills on sand or vermiculite and place in closed container for disposal.

---

## **HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.  
Possible carcinogen  
Sensitizer

### **Precautions for safe storage**

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

---

## **EXPOSURE CONTROL/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

### **Personal protective equipment**

#### **Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### **Hand/skin protection**

Avoid all direct contact with product.  
Wear chemical-resistant gloves.  
Wear protective clothing and boots.  
After contact with skin, wash immediately.

#### **Respiratory protection**

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne

concentrations are unknown or exceed the exposure limits.

---

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	grey powder
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	1,460°C
Boiling Point	no data available
Flash Point	no data available
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Upper/Lower Flammability or Explosive limits	no data available
Vapour pressure	no data available
Relative Density	4.3
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Refractive Index	no data available

---

## STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Risk of ignition or formation of flammable gases or vapors with water, alkali hydroxides and acids.

### Conditions to avoid

Moisture. Heat, flames and sparks. Extremes of temperature and direct sunlight.

### Incompatible materials

Strong acids, strong bases, water.

### Hazardous decomposition products

May evolve and nitrogen oxides.

---

## TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Skin corrosion/irritation

Causes skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

Carcinogenicity: Suspected of causing cancer.

**Reproductive toxicity**

no data available

**STOT-single exposure**

May cause respiratory irritation

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure.

Target Organs: Respiratory Tract, Skin

**Aspiration hazard**

no data available

**Exposure Routes**

Harmful to skin, eyes, and respiratory system.

May be toxic if inhaled or swallowed.

**Signs and Symptoms of Exposure**

The following applies to practically insoluble nickel compounds in general: inorganic nickel has an adstringent effect on mucous membranes. In some cases nickel dermatitis may manifest itself. Experience has shown nickel and nickel compounds that are practically insoluble in water to be carcinogenic.

The following applies to aluminum compounds in general: After swallowing: only slightly absorbable via the gastrointestinal tract. Serious disorders in man (from about 4000 mg aluminum up): phosphate metabolism, calcium metabolism. Decomposition of the substance with tissue moisture.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

---

**ECOLOGICAL INFORMATION****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

---

**DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

---

**TRANSPORT INFORMATION****DOT**

Aluminum powder, uncoated

4.3

UN1396 III

**IMDG**

Aluminium powder, uncoated

4.3

UN1396 III

EMS-No: F-G, S-O

Marine Pollutant: No

**IATA**

Aluminium powder, uncoated

4.3

UN1396 III

---

**REGULATORY INFORMATION****SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

**New Jersey Right to Know Components**

This product may contain a chemical on the New Jersey Right to Know Components List.

**CAS**

Aluminium-nickel Raney-type alloy powder

12635-29-9

**California Prop. 65 Components**

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

---

**OTHER INFORMATION**

Version : 1.2

Revision Date : 11/12/2018

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.