

SAFETY DATA SHEET

Creation Date 24-Jun-2009

Revision Date 24-Dec-2021

Revision Number 5

Product Name	1. Identification Aluminium-nickel, Raney-type alloy, powder
Cat No. :	AC206230000; AC206230025; AC206230050; AC206231000; AC206235000
CAS No Synonyms	12635-29-9 Raney-type alloy for the preparation of Raney Nickel catalyst.
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

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

Culatoneoo/mivtureo which in contact with water, emit	Cotogon ()
Substances/mixtures which, in contact with water, emit flammable gases	Category 2
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Carcinogenicity	Category 1A
	Category IA

Label Elements

Signal Word Danger

Hazard Statements

In contact with water releases flammable gas

May cause cancer May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled



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

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

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

Fire

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

Storage

Store locked up

Store in a dry place. Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Nickel alloy, base , Ni,Al	12635-29-9	<=100

4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Dry sand.
Unsuitable Extinguishing Media	DO NOT USE WATER, FOAM OR CO2
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	t No information available No information available

Specific Hazards Arising from the Chemical

Water reactive. Contact with water liberates extremely flammable gases. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. Nickel oxides. Fumes of aluminum or aluminum oxide. Hydrogen.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 2	Instability 2	Physical hazards W
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.		
Environmental Precautions	Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.		
Mothedo for Containment and C		-	-

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.

	7. Handling and storage
Handling	Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

water or moist air. Keep under nitrogen. Flammables area. Incompatible Materials. Strong oxidizing agents. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Nickel alloy, base , Ni,Al		(Vacated) TWA: 1 mg/m ³	IDLH: 10 mg/m ³	
_			TWA: 0.015 mg/m ³	

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.			
Personal Protective Equipment				
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties			
Physical State	Powder Solid		
Appearance	Grey		
Odor	Odorless		
Odor Threshold	No information available		
рН	No information available		
Melting Point/Range	1350 °C / 2462 °F		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	Not applicable		
Flammability (solid,gas)	No information available		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	Not applicable		
Specific Gravity	3.460		
Solubility	Insoluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	Not applicable		
Decomposition Temperature	No information available		
Viscosity	Not applicable		
Molecular Formula	Al Ni		
Molecular Weight	85.68		

10. Stability and reactivity

Reactive Hazard		Yes				
Stability		Water reactive. Moisture sensitive.				
Conditions to Avoid	ł	Avoid dust formation	on. Incompatible p	roducts. Excess he	eat. Exposure to m	oist air or water.
Incompatible Mater	ials	Strong oxidizing ag	gents, Strong acids	3		
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Nickel oxid Fumes of aluminum or aluminum oxide, Hydrogen				Nickel oxides,		
Hazardous Polymer	ization	Hazardous polyme	erization does not o	occur.		
Hazardous Reaction	ns	None under normal processing.				
11. Toxicological information						
Acute Toxicity						
Product Information The toxicological properties have not been fully investigated						
Component Informa Toxicologically Syn		No information available				
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure_						
Irritation		May cause skin, eye, and respiratory tract irritation				
Sensitization		May cause sensitization by inhalation and skin contact				
Carcinogenicity		Limited evidence of a carcinogenic effect.				
Component	Component CAS No IARC NTP ACGIH OSHA Mexico					
Nickel alloy, base,	12635-29-9	Not listed	Known	Not listed	Not listed	Not listed
Ni Al	1					

Nickel alloy, base , Ni,Al	12635-29-9	Not listed	Known	Not listed	Not listed	Not listed	
NTP: (National To	xicity Program)	NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen					
Mutagenic Effects		No information ava	•				
Reproductive Effects No information available.							
Developmental Effects No information available.							
Teratogenicity		No information available.					
STOT - single exposision STOT - repeated exposite structure of the second stru	- single exposure None known - repeated exposure None known						
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	,both acute and	nd Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing					
Endocrine Disrupto	r Information	No information available					
Other Adverse Effe	her Adverse Effects No information available.						
	12. Ecological information						
Ecotoxicity	Ecotoxicity						

Do not empty into drains. Do not flush into surface water or sanitary sewer system. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	Insoluble in water May persist		
Bioaccumulation/ Accumulation	No information available.		
Mobility	Is not likely mobile in the environment due its low water solubility.		
13. Disposal considerations			

Waste	Disposal	Methods	

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN3208
Proper Shipping Name	WATER-REACTIVE SOLID, N.O.S.
Technical Name	Nickel alloy, base, Ni,Al
Hazard Class	4.3
Packing Group	II
TDG	
UN-No	UN3208
Proper Shipping Name	WATER-REACTIVE SOLID, N.O.S.
Hazard Class	4.3
Packing Group	II
IATA	
UN-No	UN3208
Proper Shipping Name	Metallic substance, water-reactive, n.o.s
Hazard Class	4.3
Packing Group	II
IMDG/IMO	
UN-No	UN3208
Proper Shipping Name	Metallic substance, water-reactive, n.o.s
Hazard Class	4.3
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Nickel alloy, base , Ni,Al	12635-29-9	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Nickel alloy, base , Ni,Al	12635-29-9	-	-	-	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Nickel alloy, base , Ni,Al	12635-29-9	<=100	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

	Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
I	Nickel alloy, base , Ni,Al	-	-	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nickel alloy, base , Ni,Al	Х		-

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA Not applicable

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Nickel alloy, base , Ni,Al	12635-29-9	Carcinogen	-	Carcinogen
ILC State Dight to Know				

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nickel alloy, base , Ni,Al	-	Х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν	
DOT Marine Pollutant	Ν	
DOT Severe Marine Pollutant	Ν	

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	0 (
Nickel alloy, base , Ni,Al	-	Use restricted. See item 27. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Nickel alloy, base , Ni,Al	12635-29-9	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Nickel alloy, base , Ni,Al	12635-29-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	24-Jun-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS