

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
 Product code : N0143105000
 Identification of the product : NICKEL-ALUMINIUM ALLOY POWDER 50%
 CAS No: 12635-27-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R15
 R43

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
 Physical hazards : Substances and mixtures, which in contact with water, emit flammable gases -
 Category 1 - Danger (CLP : Water-react. 1) H260

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
2. Hazards identification -DSD (continued)
Symbol(s)

Symbol(s)

 : F : Highly flammable
 Xn : Harmful

R Phrase(s)

 : R15 : Contact with water liberates highly flammable gases.
 R40 : Limited evidence of a carcinogenic effect.
 R43 : May cause sensitization by skin contact.

S Phrase(s)

 : S36/37 : Wear suitable protective clothing and gloves.
 S43 : In case of fire, use .

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H260 : In contact with water releases flammable gases which may ignite spontaneously.
 H317 : May cause an allergic skin reaction.

Precautionary statements
• Prevention

 : P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
 P231+P232: Handle under inert gas. Protect from moisture.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.

• Response

 : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs : Get medical advice.
 P363: Wash contaminated clothing before reuse.
 P335+P334: Brush off loose particles from skin. Immerse in cool water, wrap in wet bandages.
 P370+P378: In case of fire: Use for extinction.

• Storage

: P402+P404: Store in a dry place. Store in a closed container.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards
Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
3. Composition/information on ingredients

Substance / Preparation : NICKEL-ALUMINIUM ALLOY POWDER 50%

Substance.

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures
4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice. Specific treatment (see on this label). If skin irritation or rash occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Immerse in cool water, wrap in wet bandages. Brush off loose particles from skin.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures
5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
5. Fire-fighting measures (continued)

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid breathing dust, fume, gas, mist, vapours, spray. Protect from moisture. Handle under inert gas. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Protect from moisture. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
7. Handling and storage (continued)

Specific end use(s) : None.

8. Exposure controls/personal protection
8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: No data available.
Decomposition point [°C]	: No data available.
Critical temperature [°C]	: Not applicable.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: Not applicable.
Initial boiling point [°C]	: Not applicable.
Final boiling point [°C]	: Not applicable.
Evaporation rate	: Not applicable.
Vapour pressure [20°C]	: No data available.
Vapour density	: No data available.
Density [g/cm ³]	: No data available.
Relative density, liquid (water=1)	: Not applicable.
Solubility in water	: No data available.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
9. Physical and chemical properties (continued)

Log Pow octanol / water at 20°C : No data available.
 Viscosity at 40°C [mm²/s] : No data available.

9.2. Other information

Explosive properties : No data available.
 Explosion limits - upper [%] : No data available.
 Explosion limits - lower [%] : No data available.
 Oxidising properties : No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : In contact with water releases flammable gases which may ignite spontaneously.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
11. Toxicological information (continued)

• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Based on available data, the classification criteria are not met.
Sensitization	: May cause an allergic skin reaction.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
13. Disposal considerations (continued)

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : METAL POWDER, FLAMMABLE, N.O.S.
UN N° : 3089
H.I. nr : 40
ADR - Class : 4.1
Labelling - Transport : 4.1 : Flammable solids, self-reactive substances and desensitized explosives.



ADR - Classification code : F3
ADR - Group : II
ADR - Packing instructions : P002
ADR - Limited Quantity : 1 KG
ADR - Tunnel code : E : Passage forbidden through tunnels of category E.


14.2. Sea transport (IMDG) [English only]

Proper shipping name : METAL POWDER, FLAMMABLE, N.O.S.
UN N° : 3089
IMO-IMDG - Class or division : 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IMO-IMDG - Packing group : II
IMO-IMDG - Packing instructions : P002
IMO-IMDG - Limited quantities : 1 kg
IMO-IMDG - Marine pollution : No
EMS-Nr : F-G S-G

14.3. Air transport (ICAO-IATA) [English only]

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)
14. Transport information (continued)

Proper shipping name	: METAL POWDER, FLAMMABLE, N.O.S.
UN N°	: 3089
IATA - Class or division	: 4.1 : Flammable solids, self-reactive substances and desensitized explosives.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 445
- Passenger and Cargo - Maximum Quantity/Packing	: 15 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 448
- Cargo only - Maximum Quantity/Packing	: 50 kg
IATA - Limited Quantities	: 5 kg
ERG-Nr	: 3L

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
----------------------------	--------------------------------

16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information	: None.

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL ALUMINIUM ALLOY POWDER (FOR PRODUCTION OF RANEY NICKEL ALLOY)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

End of document