Material Safety Data Sheet

NICKEL ALUMINIUM ALLOY POWDER (RXSOL-60-6605-086)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-086
Product Type	NICKEL-ALUMINIUM ALLOY POWDER
Revised date	

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Substance / Preparation : NICKEL-ALUMINIUM ALLOY POWDER
CAS No :12003-78-0
Substance. Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. 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
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
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) : S8 : Keep container dry.
S22 : Do not breath dust.
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.
3.3. 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.

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.
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)
Specific end use(s) : None.

8. Exposure controls and 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.
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/cm3] : No data available.
Relative density, liquid (water=1) : Not applicable.
Solubility in water : No data available.
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
• 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
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]
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 : 445

instruction
- Passenger and Cargo - Maximum : 15 kg
Quantity/Packing IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 448
- Cargo only - Maximum Quantity/ : 50 kg
Packing IATA - Limited Quantites : 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 : Ensure all national/local regulations are observed.

regulations/legislation specific for the substance or mixture

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

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
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