

Metal Powders USA



Material Safety Data Sheet

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01/01/2019

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Product name

Stainless Steel Powder

1. IDENTIFICATION OF THE SUBSTANCE/MANUFACTURER

CHEMICAL OR TECHNICAL DENOMINATION Stainless Steel Powder
SDS NUMBER 219
ITEM NUMBER 211015B
PRODUCT CODE 211015

MetalPowdersUSA, INC
11010 Harbor Hill Dr NW
Suite #B208
Gig Harbor, WA 98332 USA

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION/INFORMATION ON INGREDIE

This is not a specification.

3. HAZARDS IDENTIFICATION

The classification of the product

Inhalation

The product is not classified as dangerous according to 1999 /45/EEC.
Dust and fume are irritating to respiratory system.
May cause sensitization by inhalation. In use, stainless steel fume from metallizing, welding or similar processes forms hazardous gases under both oxidizing and reducing conditions. Prolonged or repeated inhalation of dust or fume may produce irreversible effects in the lungs.
For very fine powder (-45 um) there is a risk for dust explosion.

4. FIRST AID MEASURES

Inhalation

Skin contact

Eye contact

Ingestion

Move exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Dust and fume are irritating to respiratory system. In use, alloy steel fume from metallizing, welding or similar processes forms hazard gases under both oxidizing and reducing conditions. Prolonged or repeated inhalation of dust and fume may produce irreversible effects in the lungs.
Wash the skin using soap or a mild detergent and warm water. Remove contaminated clothing and thoroughly clean and dry before reuse. Get medical attention if irritation develops. May cause sensitization by skin contact
Flush eyes with plenty of water, lifting the upper and lower eyelids occasionally. Get medical attention if irritation develops.
If person is conscious, give large quantities of water to drink. Get medical attention.

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5. FIRE-FIGHTING MEASURES

Extinguishing media
Extinguishing media not be used
Special exposure hazards
Fire fighting equipment

Dry chemical.
Do NOT use water.

Wear full bunker gear including a positive pressure self-contained breathing apparatus.
None identified.

Other information

Keep away from ignition sources (e.g., heat and open flames)
Use with adequate ventilation. Keep container closed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Restrict the area to those persons wearing respiratory protection. Do not allow unprotected people into the area until cleanup has been completed.
Ventilate the area thoroughly.

Environmental protection
Methods for cleaning up

Spillage should be cleared with vacuum equipment, protected against static electricity, to avoid excess dust.

7. HANDLING AND STORAGE

Handling
Storage

Avoid dusty working conditions. Use sufficient dust extracti
Store at dry condition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Chromium
Nickel
Molybdenum

OSHA PEL = 1 mg/m³, ACGIH TLV = 0.5 mg/m³
0.5 mg/m³ MEL

ACCGIH TVL 10 mg/m³
OSHA 15.0 mg/m³

NIOSH IDLH 5000 mg/m³

Iron

IDHL= Immendiatly dangerous to life and health.

ACGIH TLV 5,0 mg/m³

OSHA PEL 10 mg/m³

NIOSH IDLH 2500 mg/m³ as Iron

IDLH = Immediately dangerous to life and health

Respiratory protection

Do not breathe dust or fume. Use with adequate ventilation. If ventilation is inadequate, use certified respirator that will protect against toxic dust. If fumes are likely to be generated, use certified respirator that will protect against dust/fumes.

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Eye protection

Wear dust-proof safety goggles. Do not permit contact lenses.

Skin protection

Wear suitable protective clothing and gloves. Avoid contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odor

Melting point

1400 - 1425 °C

Solubility in water

10. STABILITY AND REACTIVITY

Material to avoid

Stable.

11. TOXICOLOGICAL INFORMATION

Inhalation

Dust and fume are irritating to respiratory system. May cause sensitization by inhalation. In use, fume from metallizing, welding or similar processes forms hazardous gases under both oxidizing and reducing conditions. Prolonged or repeated inhalation of dust or fume may produce irreversible effects in the lungs.

No significant health hazard identified.

May cause skin sensitization by skin contact.

No significant irritation expected other than possible mechanical irritation.

Iron

Human experience with exposure to nickel metal dust includes asthma, pulmonary fibrosis and pulmonary edema in welders using Ni alloys. Skin sensitization is commonly observed. Eye contact does not present any special problem peculiar to nickel. Nickel metal is listed as carcinogenic by the National Toxicology Program, and probably carcinogenic to humans by IARC, and is recognized as a confirmed human carcinogen by ACGIH. However, as reported by the ACGIH, "...Ni metal, and alloys would not appear as hazardous (as NiO and Ni3S2) and less strictly exposure limit could be accepted." The report also stated that nickel exposure has not been clearly associated with respiratory cancer in any of the industries using nickel (as opposed to the nickel refining process). Iron is an essential nutrient. Iron compounds as a class are not associated with any particular industrial risk, although

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inhalation of iron oxide fumes or dust may cause a benign pneumoconiosis (siderosis). Dose levels of iron among iron workers developing siderosis have been reported to exceed 10 mg iron /m³.

12. ECOLOGICAL INFORMATION

No data on the ecological effects of this product has been developed.

13. DISPOSAL CONSIDERATIONS

Material

Dispose of in a safe manner in accordance with federal, state and local regulations.

Package

Spillage ought to be manually collected or vacuumed up with equipment protected against static electricity. Dispose in safe manner in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR/RID
IMO/IMDG
ICAO/IATA

Not regulated
Not regulated
Not regulated

15. REGULATORY INFORMATION

Symbol (s)
R-phrases
S-phrases

16. OTHER INFORMATION

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