

Metal Powders USA



Safety Data Sheet

Printout date

01/01/19

Page:

Revision date

01/01/19

1

Product name

Nickel Silver

1. IDENTIFICATION OF THE SUBSTANCE and MANUFACTURER

PRODUCT: Nickel Silver -325 MeshMetalPowdersUSA, INC
11010 Harbor Hill Dr NW
Suite #B208
Gig Harbor, WA 98332 USA

2. HAZARD IDENTIFICATION

Acute Toxicity, Oral - Category 4
Acute Toxicity, Inhalation - Category 4
Irritant, Eye - Category 2B
Copper Fume: Irritant, Respiratory - Category 3

ENVIRONMENTAL HAZARDS

Acute Aquatic Toxicity - Category 1
Aquatic Chronic Toxicity - Category 1

PHYSICAL HAZARDS None known

HAZARD STATEMENTS:

H302 - Harmful if swallowed
H335 - May cause respiratory irritation
H320 - Causes eye irritation
H410 - Very toxic to aquatic life with long lasting effects

3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Ingredient | Percentage | EC Number | CAS No. |
|------------|------------|-----------|-----------|
| Copper | 60-70 | 231-159-6 | 7440-50-8 |
| Zinc | 15-20 | 236-671-3 | 7440-66-6 |
| Nickel | 15-20 | 231-111-4 | 7440-02-0 |

4. FIRST AID MEASURES

| | |
|---------------|--|
| INHALATION | Remove to fresh air. Lay patient down. Cover with blanket. |
| INGESTION | Give 200-300 mL water to drink. DO NOT induce vomiting. |
| SKIN CONTACT | For skin exposure, remove contaminated clothing and wash with soap and water. |
| EYE CONTACT | If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes |
| MEDICAL NOTES | If any adverse symptoms persist seek immediate medical attention. |

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: CO2, ABC extinguisher, or water spray.**SPECIAL FIRE FIGHTING PROCEDURES:** Material is non-flammable. Use firefighting measures appropriate to surrounding materials.**PERSONAL PROTECTIVE EQUIPMENT:** Wear self-contained breathing apparatus

Issue date: 1/1/19

Safety Data Sheet

Printout date
01/01/19

Revision date
01/01/19

Page:

2

Product name
Nickel Silver

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection.

METHODS FOR CLEAN UP: Contain spillages and clean up with vacuum or conventional tool and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance to local and national waste regulations.

METHOD OF DISPOSAL: Place in a suitable container for recycling or disposal in accordance with local, state, and/or federal regulations.

7. HANDLING AND STORAGE

Handling: Only use in a well-ventillated area and prevent the creation of dusts. If concentrations exceeds the occupational exposure limits, use suitable respiratory protection.

Storage: Store in a cool, dry well-ventililated place. Keep away from food, drink, and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards: 8-hour TWA
1. Copper powder as dust and mist
OSHA PEL 1mg/m3 AND ACGHI TLV 1mg/m3
2. Zinc powder as dusts
OSHA PEL 10mg/m3 8-hour TWA and ACGIH-TVL 10mg/m3 8-hour TWA
3. Nickel as dust
OSHA PEL 1.0mg/m3 and ACGIH TLV 1.0mg/m3

Occupational Exposure Controls Ventilation: All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations. To keep below the USA OSHA and EU exposure limits, use general dilution type ventilation.

Personal Protection Respiratory Protection: Cartridge type particulate filter respirator or dust-mask conforming to USA NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.

Hand Protection: Wear if skin contact is probable and skin is sensitive.

Eye Protection: Safety glasses or goggles.

Skin Protection: Long sleeve shirt(s) if contact is probable and skin is sensitive

Environmental Protection: Do not allow to enter drains or watercourses.

Issue date: 1/1/19

Safety Data Sheet

Printout date
01/01/19

Revision date
01/01/19

Page:

3

Product name
Nickel Silver

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Yellowish to Tan Color Odor None

| | Copper | Zinc | Nickel |
|------------------------------|------------|------------|------------|
| Boiling Point: | 2567* C | 1665*C | 2730*C |
| Melting Point: | 1083*C | 419*C | 1455*C |
| Specific Gravity: | 8.94 | 7.14 | 8.90 |
| Vapor Pressure: | NA | NA | NA |
| Vapor Density: | NA | NA | NA |
| Evaporation Rate: | NA | NA | NA |
| Solubility in Water: | Insoluable | Insoluable | Insoluable |
| Volatile by Volume %: | 0 | 0 | 0 |
| Molecular Weight: | 63.54 | 65.37 | 58.7 |

10. STABILITY AND REACTIVITY

STABILITY: Stable

Conditions and materials to avoid:

Temperatures above 100* C while in the presence of moist air.

HAZARDOUS DECOMPOSITION PRODUCTS:

Metal fumes will be released if heated above the elements melting point.

HAZARDOUS POLYMERIZATION:

Will Not Occur.

11. TOXICOLOGICAL INFORMATION

SIGNS, SYMPTOMS AND EFFECT OF OVER EXPOSURE:

EYES: Redness, tearing, itching, burning and conjunctivitis
INGESTION Irritation and burning sensation of mouth and throat, nausea, abdominal pain with possible diarrhea.
INHALATION Irritation of the mucous membranes, coughing, weezing, shortness of breath. Prolonged exposure may cause metallic taste.

ACUTE HEALTH EFFECTS:

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

Toxic to fish and other aquatic organisms.
Prevent from entering drains, sewers, and surface water.

Issue date: 1/1/19

Safety Data Sheet

Printout date
01/01/19

Page:

Revision date
01/01/19

4

Product name
Nickel Silver

13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with applicable local, state and federal regulations (contact local, state, or federal environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water.

14. TRANSPORTATION INFORMATION

US DOT

Not Regulated. Class 9 materials do not require placarding for USA ground transport (49CFR 172.504 (f) (9)). Exceptions, except when all or part of the transportation is by vessel, their requirements specific to marine pollutants do not apply to non-bulk packaging's transported by motor vehicle, rail car, or aircraft (49 CFR 171.401(c)).

15. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM / REGULATORY INFORMATION

US EPA EPCRA Section 313 SARA Title III Reportable Product
TSCA Inventory Status (40 CFR 710) All formulation components are listed in the TSCA Inventory.

California Proposition 65: This product contains no chemicals which the State of California has found to cause Cancer, birth defects of other reproductive harm

16. OTHER INFORMATION

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge however, this not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

This Safety Data Sheet has been established in accordance with Directive nr 1907/2006/EC.
Classification references: Directive 67/548/EEC and Directive 99/45/EEC.

Issue date: 1/1/19