

MATERIAL SAFETY DATA SHEET

1. Product and Company Information

Technical Service Section
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Name of material : C7025 (OLIN7025)

2. Specification of substance

Chemical name : Cu-Ni-Si-Mg alloy

Element	Ni	Si	Mg	Cu
CAS No.	7440-02-0	7440-21-3	7439-95-4	7440-50-8
Chemical Composition (%)	3.0	0.65	0.15	Bal.

3. Hazardous/poisonous classification

Name of classification : Not applicable

Possible hazardousness / Possible toxicity:

This product is stably solid material and there is no classification as hazardous or toxic material. Acceptable density for environment is specified by elements concerning vapors and dusts which are generated from the processes of melting, welding, cutting and grinding.

Exposure of high concentration of Nickel dust or fume may cause pneumonia.

Effect on environment :

There is a drainage standard for copper in life environment clause of prevention law on water quality contamination.

4. First aid

(1) Caught in the eyes:

Immediately flush out dust with sufficient clean water and get physician's treatment for pain or uncomfortable feel.

(2) Struck to the skin: Soap up the portion.

(3) Inhaled: If a large quantity of vapors and particles are inhaled, move the patient to a place of clean air immediately. Give the patient oxygen inhalation and have him/her receive immediate physician's treatments in case it seems to be necessary.

(4) Swallowed: If large quantities of vapors and particles are swallowed, make him/her vomit and then have him/her physician's treatments immediately.

5. Action for fire

Extinguishing: -- (Incombustibles)

6. Action for leakage

No requirement for solid metal product.

7. Notes for handling and storage

Handling: To prevent the inhalation of vapors or particles, wear personal protection such as a mask in welding or grinding processes.
The cut ends or edges of the strip are sharp enough for cut, so take sufficient care when handling.

Storage: Do not store together with acids.

8. Avoidance of exposure

Acceptable concentration :

Japan Society for Occupational Health:

Ni 1mg/m³

OSHA PEL * Ni 1mg/m³

ACGIH TWA ** Cu 1mg/m³ (dust)

Cu 0.2mg/m³ (fume or vapor)

Protective outfit

For mouth: Dustproof mask

For eyes: Dustproof glasses

For hands: Rubber or plastic gloves

For body: --

* OSHA PEL: Occupational Safety and Health Administration U.S.Department
Permissible Exposure Limit

** ACGIH TWA: American Conference of Governmental Industrial Hygienists
Time Weighted Average

9. Physical / chemical properties

Appearance : Metallic brightness

Melting point : 1095□

Specific gravity : 8.82

10. Hazardous information

Stability / reactivity: Stable under normal handling conditions.

11. Toxicological information

(No information about the alloy, but information on each element is shown below.)

Acute toxicity:

Orally administered - mouse LD50 >4000mg/kg (Copper dusts)

Nickel dust or fume can irritate nose, mouth, throat, eyes, respiratory organ and lungs. They may cause allergic dermatitis, cough, wheezing, shortness of breath and chest tightness.

Ingestion of Nickel dust in large amounts may affect blood, heart, thyroid and spleen.

Local Effect:

Prolonged and repeated contact with Nickel may cause skin sensitization.

Chronic Toxicity:

Prolonged and repeated inhalation and exposure of Nickel may cause asthma, and may also affect lungs.

Carcinogenicity

Nickel is classified as 2B (possibly carcinogenic to humans) by IARC*, and A5 (not suspected as human carcinogen) by ACGIH.

* IARC: International Agency for Research on Cancer

12. Ecological Information

(No information about the alloy, but information on each element is shown below.)

Water Pollution Control Law:

Life environment clause (for Copper)

13. Note for scrapping

C7025 should be collected and recycled as a metal.

Contact scrapping agent.

14. Note for transportation

Handle with care when transporting as follows:

Take care not to allow the air to cause corrosion, turnover, drop or packing disorder.

15. Applicable legislation

(No information about the alloy, but information on each element is shown below.)

Water Pollution Control Law:

Life environment clause (for Copper)

PRTR Law: Nickel is Class 1 – designated chemical substances

C7025 does not correspond to Poisons, Deleterious Substances, Specific Deleterious Substances, in Poisonous and Deleterious Substances Control Law.

16. Other Information

We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse or accuracy. We have not verified this information, and can not guarantee that it is up-to-date.