

Material Safety Data Sheet

Date: 25. April 2004

CPP 2550 Ni

1. Product Name and Supplier CPP 2550 Ni Eutectic Canada Inc. 428 Aimé-Vincent Vaudreuil-Dorion, Québec J7V 5V5 Tel.: 514-695-7500 Fax.: 514-695-8793																									
2. Information on composition <table><thead><tr><th>Substance</th><th>Cas-Nr.</th><th>Content</th><th>Symbols</th><th>R-Phrases</th></tr></thead><tbody><tr><td>Tungsten Carbide</td><td>12070-12-1</td><td>83,5-86,5 %</td><td></td><td></td></tr><tr><td>Cobalt</td><td>7440-48-4</td><td>9 -11 %</td><td>Xn</td><td>40/43</td></tr><tr><td>Chromium</td><td>7440-47-3</td><td>4,5-5,5%</td><td></td><td>11</td></tr><tr><td>Impurities</td><td><0,2%</td><td></td><td></td><td></td></tr></tbody></table>	Substance	Cas-Nr.	Content	Symbols	R-Phrases	Tungsten Carbide	12070-12-1	83,5-86,5 %			Cobalt	7440-48-4	9 -11 %	Xn	40/43	Chromium	7440-47-3	4,5-5,5%		11	Impurities	<0,2%			
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3. Hazards Identification Inhalation of heavy dust concentration in the long term may cause lung disease. Contact with skin in the long term may cause sensitization. Possible risk of irreversible effects.																									
4. First aid measures Inhalation: Fresh air, If suspect symptoms appear seek medical advice. Skin contact: Wash with mild soap and water. If suspect symptoms appear seek medical advice. Eye contact: Rinse with plenty of luke water. If suspect symptoms appear seek medical advice. Ingestion: Start vomiting and seek medical advice																									
5. Fire-fighting measures suitable extinguisher: dried sand, special powder for metal fires for safety reasons not suitable extinguisher: water Possible risk of the material, it's products of combustion or resulting gases: combustion can result carbon monoxide/dioxide additional advice: none																									
6. Accidental release measures personal percautionary measures: dissapear ignition sources, avoid formation of dust and dust deposit Enviromental percautionary measures: None																									

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6. Accidental release measures (continuation)

cleaning method:

Spillage should be collected with vacuum cleaner to avoid excess of dust.

additional advice:

none

7. Handling and storage

Handling

advice for safe handling:

avoid formation of dust and dust deposit. ensure suitable ventilation, if necessary use exhausterduring handling and decant of product

advice for fire and explosion protection:

keep away from ignition sources

Storage

requirements for storage room:

none

advice for storage conditions:

store product in dense, sealed buckets under dry conditions

8. Exposure controll and personal protection

for expositional limits see point 15.

breath protection: fine particle filter P2

hand protection: safety gloves

eye protection: safety glasses

Avoid dusty working conditions, use sufficient dust extraction

wash hands before meal, breaks and after daily work.

9. Physical and chemical properties

Form:	powder
colour:	grey
odor:	inodorous
pH-value:	not determined
melting point:	1453,0°C
boiling point:	≈2732,0°C
inflammability:	Co dust yes
inflammation point:	not determined
self-inflammability:	not determined
explosion limits:	not determined

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9. Physical and chemical properties (continuation)
vapour pressure: not determined density: 12,0-13,5 g/cm ³ apparent density: 3,5-6,4 g/cm ³ solubility in water: insoluble solubility in acids: soluble
10. Stability and reactivity conditions to be avoided: keep away from igniting sources substances to be avoided: performic acid, sulfur, selen, oxidizer, chlorine/air, methanol/air, nitrile fluoride, ammonium nitrate, fluorine hazardous decomposition products: none additional informations: At thermal treatment carbon monoxide/dioxide could be released
11. Toxicological informations No data available
12. Ecological informations No data available
13. Disposal considerations unused material: If possible recycle. contact the manufacturer or: Dispose of in safe manner in accordance to local regulations
14. Transport informations GGVSee/IMDG-Code: -- UN-Nr.:-- MFAG: -- EmS: -- PG: -- MPO: -- GGVE/GGVS: Kl -- Zi.: -- RID/ADR: Kl. -- Zi.-- ADNR: Kl. -- Zi.: -- Kat. -- ICAO/IATA-DGR: not restr. Deklaration land: -- Deklaration sea: -- Deklaration air: -- additional advice: not restricted goods. keep seperate from food.
15. Regulatory informations

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Labeling in accordance to local regulations for hazardous materials. Labeling: contains nickel		
Symbol (s):	Xn-harmful	
R40:	Possible risk of irreversible effects	
R43	May cause sensitization by skin contact	
S-Phrases:		
S24:	avoid contact with skin	
S37:	Wear suitable protective gloves	
content of substances to be controlled:		
Substance	CAS-No.	TLV
Cobalt	7440-48-4	0,5 mg/m ³
Tungsten Carbide	12070-12-1	----
16. Other informations		
none		

These informations are according to our today's knowledge and experiences. The material safety data sheet describes a product regarding it's safety requirements. It is no guarantee for the materials properties.