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Material Safety Data Sheet

SECTION 1 - SUBSTANCE IDENTIFICATION

ALLOY NAME: CSN

DESCRIPTION: Color: WHITE Type: PFM

SECTION 2 - COMPOSITON/INFORMATION ON INGREDIENTS

METAL	%	SYMBOL	CAS NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
NICKEL	76	Ni	7440-02-0	1 mg/m3	1 mg/m3
IRON	X	Fe	7439-89-6	5 mg/m3	10 mg/m3
SILICON	X	Si	7440-21-3	10 mg/m3	10 mg/m3 (total dust) 5 mg/m3 (respiatpry dust)
CARBON	X	C	7440-44-0	3.5 mg/m3	3.5 mg/m3
MOLYBDENUM	6	Mo	7439-98-7	Not established	Not established
CHROMIUM	14	Cr	7440-47-3	0.5 mg/m3	0.5 mg/m3 CRVI compounds: Ceiling=0.1 mg/m3
BERYLLIUM	1.8	Be	7440-41-7	0.002 mg/m3	0.002 mg/m3 Ceiling 0.025 mg/m3 STEL=0.005 mg/m3
ALUMINUM	2	Al	7429-90-5	10 mg/m3	15 mg/m3

Note: % values are in weight percent and reflect nominal composition.

Note: 'x' denotes a content of less than one percent

SECTION 3- HAZARDS IDENTIFICATION

EYES: Contact with eyes may cause severe irritation and possible eye burns.

SKIN: May cause severe irritation and possible burns

INGESTION: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

INHALATION: May cause irritation and burns to the respiratory tract.

NOTE:Exposure levels for elements in this alloy are listed in SECTION 2.

The following health data is for specific elements:

BERYLLIUM Causes lung irritation, dyspnea. Pneumonitis may result from single exposure to beryllium and is occasionally fatal. Chronic inhalation causes "berylliosis" or chronic pulmonary granulomatosis. Pneumonitis may result from single exposure and is occasionally fatal. Eye contact, can also cause conjunctivis. Beryllium is considered an experimental carcinogen of lungs and bones. It has also been associated with liver damage. In addition, recent research indicates that low-level exposure to Be below the PEL-TLV by way of, but not necessarily limited to, the inhalation route is associated with chronic beryllium disease (CBD). Symptoms of (CBD) include dyspnea, anorexia, weight loss, weakness, chest pain, cough, and pulmonary insufficiency. Beryllium is listed as: Carcinogenic to humans by the IARC (International Agency for Research on Cancer); Reasonably Anticipated to be a Human Carcinogen by the NTP (National Toxicology Program); and as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).

CARBON	Dust causes irritation and is possibly allergenic. Cases of pulmonary fibrosis and emphysema have resulted from prolonged inhalation of dust.
CHROMIUM	May cause histological fibrosis of the lungs. There are some references to chromium causing lung and/or nasal cancer. In addition, chromium metal has caused tumors in laboratory animals via implant and intravenous routes. Chromium is listed as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).
MOLYBDENUM	Chronic inhalation of molybdenum compounds by experimental animals has caused appetite and weight loss, diarrhea, muscular incoordination, hair loss and gout. Excessive intake of molybdenum may interfere with copper metabolism.
NICKEL	Dust may cause headache, coughing, dizziness or difficult breathing. Prolonged exposure may cause dermatitis. Ingestion may cause nausea, vomiting, headaches, dizziness, gastrointestinal irritation. Target organs: Nasal cavities, lungs, skin. Nickel is listed as: Possibly Carcinogenic to Humans by the IARC (International Agency for Research on Cancer) and Reasonably Anticipated to be a Human Carcinogen by the NTP (National Toxicology Program).

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
SKIN CONTACT:	Scrub skin thoroughly with soap and water.
INGESTION:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting. **Never give anything by mouth to an unconscious person. Get medical aid.
INHALATION:	Remove affected person to fresh air and assist with additional oxygen if necessary. Get first aid if other symptoms appear.

SECTION 5 - FIREFIGHTING MEASURE

This material is fire and explosion resistant. Heating Beyond the melting range may generate fumes which are not flammable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: Use proper personal protective equipment as described in section 8.

SECTION 7 - HANDLING AND STORAGE

Avoid inhalation of fumes while melting and dust while grinding. Wash hands thoroughly before eating or smoking to avoid ingestion.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTIONS

RESPIRATORY:	Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 2. Wear a NIOSH approved respirator for dust exceeding the TLVs.
HAND:	Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or molds.
EYE PROTECTION:	Wear eye protection suitable to each individual operation.

OTHER: Wear apron, lab coat or other protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	WHITE
Odor:	Not Applicable
pH:	Not Applicable
Boiling Point:	Not Applicable
Melting Range:	1230-1290 °C
Flash Point:	Not Applicable
Flammability:	Not Applicable
Autoflammability:	Not Applicable
Explosive Properties:	Not Applicable
Oxidizing Properties:	Not Applicable
Vapor Pressure:	Not Applicable
Solubility(Water/Fat):	Insoluble

SECTION 10 - STABILITY AND REACTIVITY

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

No specific instructions.

SECTION 12 - ECOLOGICAL INFORMATION

This is an environmentally friendly material. With proper dust collecting equipment, 100% of this alloy can be recycled.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whenever possible, recover dust because it has economic value.

SECTION 14 - TRANSPORT INFORMATION

No specific instructions.

SECTION 15 - REGULATORY INFORMATION

No specific instructions.

SECTION 16 - OTHER INFORMATION

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. However, IMPERIAL TRADING LTD. makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving the above material will make their own determination as to its suitability for their purposes prior to use. In no event will "IMPERIAL TRADING LTD." be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.

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