SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CATEGORY: Nikrothal N20, N30, N40, N40B, N42, N60, N60T, N70, N80, N80S, 35/19CB, NRX600, NRX601, NXT

PRODUCT TYPE: Heat Resistant Alloy

SUPPLIER: OMEGA Engineering, Inc.

ADDRESS: PO Box 4047 Stamford, CT 06907

TELEPHONE: (203) 359-1660

SECTION 2. HAZARDS IDENTIFICATION

SYMBOL: T Toxic

R VALUE: R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitization by skin contact.
R48/23 Toxic: Danger of serious damage to health by prolonged exposure through inhalation.

S VALUE: S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately. Show the label where possible.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Compounds EINECS-no. CAS. No. Content % Symbol/R-value
Nickel 231-111-4 7440-02-0 19-80 Conc 3 T R40 R43 R48/23
Chromium 231-157-5 7440-47-3 14-32
Aluminium 231-072-3 7429-90-5 Max 4
Manganese 231-105-1 7439-96-5 Max 3
Iron 231-096-4 7439-89-6 Balance

SECTION 4. FIRST AID MEASURES

INHALATION: Move to fresh air
SKIN CONTACT: Wash with soap and water
EYES CONTACT: Rinse immediately with water for several minutes, with eyelids held open.
INJESTION: Not a normal route of exposure

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use suitable extinguishing media for surrounding materials and type of fire.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS: None known

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SECTION 5. FIRE-FIGHTING MEASURES CONTINUED

SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES: None know.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Wear fully protective impervious suit.

SECTION 6. ACCIDENT RELEASE MEASURES

PERSONAL PRECAUTIONS: Use protective clothing and gloves. Also see section 8.

SECTION 7. HANDLING AND STORAGE

HANDLING: Follow generally accepted industrial practice for good hygiene.

STORAGE: Keep dry.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: Hygiene standards and exposures limits may differ from country to country. Check those currently applying in your country and comply with regulations.

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NGV = "Level Limit Value", sanitary limit value for exposure during one working day.

EXPOSURE CONTROLS PREVENTIVE ACTION: Good general ventilation is recommended.

RESPIRATORY PROTECTION: Use when necessary.

HAND PROTECTION: Protective gloves, avoid skin contact.

EYE PROTECTION: Wear safety glasses when tooling.

SKIN PROTECTION: Wear suitable protection clothing and protective shoes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid, metal
COLOR: Metallic
ODOR: Odorless
DENSITY: = 8 g/cm³
MELTING POINT (approx.): = 1400°C, = 2550°F
WATER SOLUBILITY: Insoluble

SECTION 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: -
MATERIALS TO AVOID: -
HAZARDOUS DECOMPOSITION PRODUCTS: -

SECTION 11. TOXICOLOGICAL INFORMATION

INHALATION: Dust may cause sensitive persons problems with respiration.

SKIN CONTACT: May cause contact eczema and allergy when repeatedly skin contact.

EYE CONTACT: Product dust may cause temporary mechanical eye irritation.

INGESTION: Not a normal route of exposure.

NICKEL: Nickel is the most commonly occurring contact allergen. According to surveys from USA, Italy, Denmark, Finland, and Sweden, 8-22% of women and 0.3-3% of men develop hypersensitivity to nickel (National Chemicals Inspectorate, Sweden, 1995). The main method of exposure is contact with metallic nickel and/or nickel alloys. Exposure to nickel has been linked to a risk of lung cancer and nasal cancer, but it has not been possible to identify the form in which nickel is carcinogenic.

The EU has classified metallic nickel as Category 3 carcinogens with a R40 risk rate - Limited evidence of a carcinogenic effect.

CHROMIUM: Prolonged contact with chromium compounds or with materials containing chromium can cause allergic reactions. Based on research, it is believed that this only occurs with contact with chromium (VI). Allergic skin reactions are particularly common in work places where work involves the handling of chromates, dichromates and chromic acid fumes, but chromium allergies have been observed in housewives, cement workers, furriers and joiners (National Chemicals Inspectorate, Sweden, 1995). One type of contact eczema, "cement eczema" is thought to be caused by chromium (VI) in cement.

People who have developed chromium allergies also tend to be hypersensitive to other metals, mainly nickel and cobalt (National Chemicals Inspectorate, Sweden, 1995)

SECTION 12. ECOLOGICAL INFORMATION

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal in accordance with all applicable local and national regulations.

SECTION 14. TRANSPORTATION INFORMATION

Road transport (ADR) Not classified as dangerous in the meaning of transport regulations.
SECTION 5. FIRE-FIGHTING MEASURES CONTINUED

SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES: None know.

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