



The David J. Joseph Company

Metals Group

DT 11.12.2017

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : High Carbon Ferro Chrome

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition : Cr : 52.23%
: Si : 4.73%
: C : 5.15%
: P : 0.027%
: S : 0.048%

SECTION 3: HAZARDS IDENTIFICATION

High Carbon Ferro Chrome is not a hazardous material

SECTION 4: FIRST - AID MEASURES

No First Aid measures are at all required

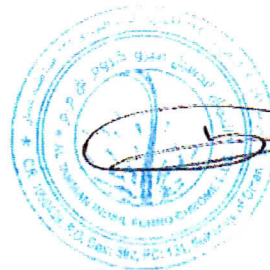
SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media : Not applicable / Not Required
Unsuitable Extinguishing Media : NA
Special Protective Equipments : NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Not Applicable
Environmental Precautions : NA
Methods for Cleaning up : NA

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SECTION 7: HANDLING AND STORAGE

Handling : Normal
Storage : Normal

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures : No Exposure Controls / Personal protection is required
Control Parameters : Required
Respiratory Equipment : NA
Hand Protection : NA
Eye Protection : NA
Skin Protection : NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black / Greyish
Odour : Odourless
pH : Neutral
Boiling Point / Boiling range : Above 2800^o
Melting Point / Melting range : +/- 1550^oC + / - 50^o
dENSITY : 7.1 gm/cm³
Flammability : Not Applicable
Auto Flammability : Not Applicable
Explosive Properties : Non Explosive
Oxidizing Properties : Non Oxidant
Vapour pressure : Not applicable
Relative Density : Not Applicable
Solubility – Water solubility : Nil
- Fat Solubility : NA
Other data : Highly inert non oxidant alloy



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SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid : Absolutely stable and non reactive
Materials to avoid : NA
Hazardous decomposition
Products : NA

SECTION 11: TOXICOLOGICAL INFORMATION

Absolutely non toxic at NTP

SECTION 12: ECOLOGICAL INFORMATION

Mobility : non mobile
Degradability : Non degradable
Accumulation : Not applicable
Short and long term effects on
Eco toxicity : Highly inert to all ecological condition
Other adverse effects : NIL

SECTION 13: DISPOSAL CONSIDERATION

Normal

SECTION 14: TRANSPORT INFORMATION

Not restricted item according to the current IATA Dangerous Goods Manual

SECTION 15: REGULATORY INFORMATION

According to EEC Council Directive, it is not a dangerous substance

SECTION 16: OTHER INFORMATION

These data are based on our present knowledge and will not establish a legal contractual relationship.



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Non-Emergency Contact: DJJ Safety Department Non-Emergency Phone: (513) 419-6200
Emergency Contact: DJJ Emergency Phone: (513) 562-1699