



Material Data Safety Information – AlphaFlux Flux Concentrator Materials #MSDS-0893-Flux

Section I – Identification

Company Name	Alpha 1 Induction Service Center
Address	1525 Old Alum Creek Dr. Columbus, Ohio 43209 USA
Emergency Phone Number	(614) 253-8900
Effective Date	April 2, 1996
Revised Date	May 23, 2006
Chemical Name	a AlphaFlux LF, AlphaFlux MF, AlphaFlux HF
Chemical Family	Machinable Induction Heating Magnetic Concentrator
Chemical Formula	Isolated Irons and Binders

Section II – Hazardous Ingredients

Hazardous Components	90% to 98% iron CAS# 7439-89-6 5% to 1% 1-Phenylene Dicyanate CAS #470773-92-7 1% to 9% Trade Secret
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Section III – Physical Data

Boiling point	650°C (1200°F)
Freezing point	NA
Volatility/Vol(%)	1% to 3%
Melting Point	NA
Vapor Pressure (mm hg)	NA
Vapor Density (air=1)	Not applicable to semi-solid
Solubility in H2O	Less than 1% at 25°C (77°F)
Appearance/Odor	Black / no odor
Specific Gravity (H2O=1)	NA
Evaporation Rate	NA as a solid
PH	NA

Section IV – Fire and Explosion Hazard Data

Flash point	900°C (1662°F)
Flammability Limits (by volume)	Less than 2%
Lower Flame Limit	NA
Higher Flame Limit	NA
Fire Extinguisher Media	Foam, CO2, Dry Chemical, Dry Sand
Unusual Fire Hazards	When burning avoid toxic products, such as carbon Monoxide gas
Special Fire Fighting Procedures	Avoid breathing fumes, gases or smoke resulting from a fire
NFPA Rating	1 Health, 1 Flammable, 0 Reactive



Section V – Reactivity Data

Chemical Stability	Stable
Conditions to Avoid	Thermal Decomposition and burning may produce Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen and Phenols. Therefore should be treated as potentially hazardous substances and appropriate precaution should be taken when over heating.
Incompatible Materials	NA
Decomposition Products	Carbon Monoxide and other hydro carbines in the smoke
Hazardous Polymerization	NA

Section VI – Health Hazard Data

Body Entry	When machining the shaving should not be ingested and eye protection should be worn
Symptoms	
Health Hazards	Standard Industrial Hygiene should be used
First Aid Procedures	EYES: For all foreign material, immediately flush eyes with plenty of water SKIN: Wash off in flowing water INGESTION: Induce vomiting if large amount ingested. Consult medical personnel. INHALATION: If inhalation of over heating or smoke occurs remove to fresh air.

Section VII – Spill or Leak Procedure

For Spill	NA
Waste Disposal Method	Small amount can be disposed in landfill. Large volume can be recycled as iron scrap.

Section VIII – Special Protection

Respiratory Protection	Practice good caution and personal cleanliness to avoid eye contact.
Ventilation	Avoid breathing smoke when over heating material.
Protective Gloves	NA
Eye Protection	NA
Other Protective Equipment	NA

Section IX – Special Precautions



1525 Old Alum Creek Drive * Columbus, Ohio 43209-2712
Phone: 614-253-8900 * Fax: 614-253-8981

Hazardous Class	NFPA rating for AlphaForm: 1 Health, 1 Flammable, 0 Reactive
Storage in special cabinets	NA
Temperature requirements	NA
Packing size	1" x 1" to 8" dia. x 2" thick
U.S. Regulations:	SARA HAZARD CATEGORY: This product has been reviewed according to the "EPA Hazard Category" promulgated under Section 311 and 312 of the Superfund Amendment, under applicable definition, to make the following category: Not To Have Met Any Hazard Category
Canada Regulation:	The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classification for this product is: D2B The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is: Not regulated

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance that the information is current and suitable to their circumstances.