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## WESTAIM AEROSPACE PRODUCTION -- NICKEL GRAPHITE POWDER -- 3439-01-103-6352

Product ID:NICKEL GRAPHITE POWDER

MSDS Date:02/26/1999

FSC:3439

NIIN:01-103-6352 Status Code:A

MSDS Number: CKDMM === Responsible Party ===

Company Name:WESTAIM AEROSPACE PRODUCTION Address:10101-114TH ST- FORT SASKATCHEWAN

City:ALBERTA, CANADA, T8L 3W4

Country:CA

Info Phone Num:780-992-74

44

Emergency Phone Num:403-992-7444

CAGE:36717

=== Contractor Identification ===

Company Name: PERFORMANCE ALLOYS

Address:1212 HIGHLAND AVENUE Box:City:MANHATTAN BEACH

State:CA ZIP:90266 Country:US

Phone:310-546-8459

Contract Num:SP0490-99-M-W168

CAGE:0A4S7

Company Name: WESTAIM AEROSPACE PRODUCTION Address: 10101-114TH ST- FORT SASKATCHEWAN

Box:City:ALBERTA, CANADA, T8L 3W4

Country:CA

Phone:780-992-7444

CAGE:36717

======= Composition/Information on Ingredients ========

Ingred Name:N

ICKEL POWDER
CAS:7440-02-0
RTECS #:QR5950000
Minumum % Wt:60.
Maxumum % Wt:85.
OSHA PEL:1 MG/M3
ACGIH TLV:1.5 MG/M3

Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 Minumum % Wt:15. Maxumum % Wt:45. OSHA PEL:SEE TABLE Z-3 ACGIH TLV:2 MG/M3

========= Hazards Identification =================

LD50 LC50 Mixture:LD50=250 MG/KG (RAT INTRAPERITONEAL) Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acu

te and Chronic:EYES: IRRITATION DUE TO MECHANICAL

ABRASION. SKIN: IRRITATION ON PROLONGED OR REPEATED CONTACT. SKIN SENSITIZATION. INGESTION: GI TRACT IRRITATION WITH BURNING AND DIARRHEA. CHRONIC: CHRONIC INHALATIO N OF NICKEL MAY PRODUCE COUGHING, SHORTNESS OF BREATH, INCREASED SUSCEPTIBILITY TO PULMONARY EDEMA, INTERSTITIAL FIBROSIS. REPEATED INHALATION OF IMPURE GRAPHITE FOR YEARS MAY CAUSE GRAPHITOSIS, A PRO GRESSIVE, DISABLING PNEUMONCONIOSIS. EXPOSED PERSON MAY

BE ASYMPTOMTIC FOR

YEARS AND SUDDENLY BECOME DISABLED OR MAY DEVELOP HEADACHE, COUGH DYSPNEA, CHEST TIGHTNESS, PAIN, DEPRESSION, DECREASED APPET ITE, BLACK SPUTUM AND DIGITAL CLUBBING.

Explanation of Carcinogenicity:METALLIC NICKEL AND CERTAIN NICKEL ALLOYS ARE CLASSIFIED BY IARC AS GROUP 2B, POSSIBLY CARCINOGENIC TO HUMANS, BASED ON INADEQUATE EVIDENCE OF EFFECTS TO HUMANS. EPIDEMIOLOGY STUDIES HAVE DEMONSTRATED AN INCREASED RISK OF NASAL, LUNG, AND POSSIBLE RISK O

F LARYNGEAL CANCER, THE MOST LIKELY
CAUSATIVE AGENTS WERE ALLOYS OF NICKEL AND NOT METALLIC NICKEL ITSELF.

Effects of Overexposure:EYES: IRRITATION, SKIN: IRRITATION. SKIN
SENSITIZATION: REDNESS, INFLAMMATION, SKIN ERUPTIONS. RECOVERY
USUALLY OCCURS WITHIN A WEEK OF DISCONTINUING EXPOSURE; HOWEVER, IN
SOME CASES, SEVERAL WEEKS M AY BE NEEDED. ONCE ACQUIRED, NICKEL
SENSITIVITY USUALLY PERSISTS. INGESTION: IRRITATION OF
GASTRO-INTESTINAL TRACT, CHARACTERIZED BY BURNING

AND DIARRHEA. INHALATION: PERSONS EXPOSED TO IMPURE GRAPHIT E FOR YEARS MAY BE ASYMPTOMIC FOR YEARS AND THEN SUDDENLY BECOME DISABLED OR MAY DEVELOP HEADACHE, COUGH DYSPNEA TIGHTNESS IN THE CHEST, PAIN, DEPRESSION, DECREASED APPETITE, BLACK SPUTUM AND DIGITAL CLUBBING.
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First Aid:EYE CONTACT: IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. GET MEDICAL ATTENTION IF
RRITATION PERSISTS. SKIN CONTACT: WASH CONTAMINATED AREA WITH SOAP AND WATE R. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. INHALATION: ALLOW VICTIM TO REST IN A WELL VENTILATED AREA. SEEK IMMEDIA TE MEDICAL ATTENTION. INGESTION: NO ADDITIONAL INFORMATION.
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Flash Point:NON-FLAMMABLE Extinguishing Media:DRY CHEMICAL, ADDITIONAL GRAPHITE, DRY EARTH. FOR SURROUNDING FIRE: WATER FOG, STANDARD FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Fire Fighting Procedures:MOVE CONTAINERS OF THE PRODUCT FROM THE AREA  IF IT IS SAFE TO DO SO. DIKE FIRE CONTROL WATER FOR LATER  DISPOSAL.
Jnusual Fire/Explosion Hazard:THIS PRODUCT IS EXPECTED NOT TO EXPLODE IN RESPONSE TO MECHANICAL IMPACT, BUT DUST-AIR MIXTURES MAY BE EXPLOSIVE IN CONTACT WITH A SOURCE OF IGNITION, SUCH AS A SPARK.
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Spill Dalagge Dragodurag;SMALL SDILLS SHOLL D DE SWEDT LID LISING EITHED

Spill Release Procedures: SMALL SPILLS SHOULD BE SWEPT UP USING EITHER WET OR DRY METHODS. CLEANUP PERSONNEL SHOULD BE PROTECTED AGAINST DUST INHALATION AND DERMAL CONTACT. WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT AND AVOID DUST GENERATION.

============= Handling and Storage ==========================

Handling and Storage Precautions: CLEAN UP PERSONNEL MUST USE THE PROTECTIVE CLOTHING AND EQUIPMENT REQUIRED TO AVOID EXPOSURE. **SAFET** 

Y SHOWERS AND EYE WASH STATIONS SHOULD BE PROVIDED IN THE WORK AREA. KEEP CONTAINER TIGHTLY CLOSED. STORE CONTAINERS IN A COOL WELL-VENTILATED AREA AWAY FROM MINERAL ACIDS AND INCOMPATIBLE MATERIALS.

Other Precautions: PROTECT CONTAINERS FROM PHYSICIAL DAMAGE.

====== Exposure Controls/Personal Protection ========

Respiratory Protection: USE SUPPLIED AIR RESPIRATOR OR SCBA FOR EMERGENCIES, FIRES, EXPOSURES EXCEEDING 1000 TIMES LIMITS. IF AIRBORNE CONC. EXCEEDS

LIMIT, USE AIR-PURIFYING RESPIRATOR. IF 50

TIMES LIMIT, USE FULL FACEPIECE RESPIRATOR. IF DUST, USE CARTRIDGE WITH DUST FILTER. FOR FUMES, USE CARTRIDGE WITH HEPA FILTER OR ONE APPROVED FOR FUME. USE NIOSH OR NIOSH/MSHA RESPIRATORS.

Ventilation:LOCAL EXHAUST FOR PRODUCT USE. PROVIDE ADEQUATE GENERAL VENTILATION WITH AN EQUAL VOLUME OF MAKE UP AIR.

Protective Gloves:GLOVES THAT ARE IMPERMEABLE TO DUST AND RESISTANT TO ABRASION.

Eye Protection:INDUSTRIAL SAFETY GLASSES WITH SI DE SHIELDS OR CHEMICAL

GOGGLES.

Other Protective Equipment:THE USE OF CONTACT LENSES WHEN HANDLING THIS PRODUCT IS DISCOURAGED. LONG SLEEVED SHIRTS AND LONG LEGGED PANTS. BOOTS. SAFETY SHOWER AND EYE WASH STATION IN WORK AREA.

Work Hygienic Practices:LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

======== Physical/Chemical Properties ==========

HCC:T6

Boiling Pt:=2760.C, 5000.F

B.P. Text:NICKEL

Melt/Freeze Pt:=1455.C, ######F

M.P/F.P

Text:NICKEL

Vapor Pres:0 MM OF HG (@ 20C)

Spec Gravity:4.09-6.18(WATER=1)

Solubility in Water: INSOLUBLE

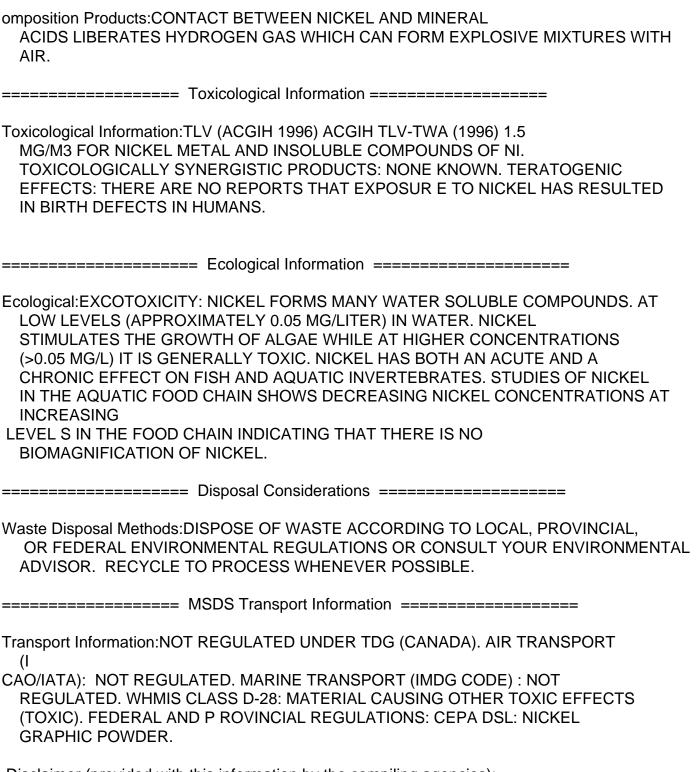
Appearance and Odor:SOLID,SILVERY GREY METALLIC POWDER (DARK), ODORLESS.

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

MOISTURE, STRONG OXIDIZING AGENTS (ESPECIALLY WHEN HEATED). CHLORINATED PARAFFINS (ALKANES), AMMONIUM NITRATE, HYDRAZINE, PERFORMIC ACID, PHOSPHOROUS, SELENIUM, SULPHUR, AND TITANIUM.,

Hazardous Dec



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