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STELLITE COATINGS -- STELLITE 6, P1060 -- 3439-00-056-0034

=========== Product Identification =============

Product ID:STELLITE 6, P1060

MSDS Date:01/15/1991

FSC:3439

NIIN:00-056-0034

MSDS Number: BSYJF === Responsible Party ===

Company Name: STELLITE COATINGS Address: 1201 EISENHOWER DR NORTH

Box:807

City: GOSHEN

State:IN

ZIP:46526-5396

Country:US

Info Phone Num:219-534-2585

Emergency Phone Num:219-534-2585

CAGE: STELL

=== Contractor Identification ===

Company Name: STELLITE COATINGS Address: 1201 EISENHOWER DR NORTH

Box:807

City: GOSHEN

State:IN

ZIP:46526-5396

Country:US

Phone:219-534-2585

CAGE:STELL

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

Ingred Name:BORON

CAS:7440-42-8

RTECS #:ED3750000

OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name: CARBON

CAS:7440-44-0

RTECS #:FF5250100 Fraction by Wt: 1.15%

OSHA PEL:10 MG/M3 TDUST ACGIH TLV:2 MG/M3 TDUST

Ingred Name: COBALT (SARA III)

CAS:744

0-48-4

RTECS #:GF8750000 Fraction by Wt: BALANCE OSHA PEL:0.05 MG/M3

ACGIH TLV:0.05 MG/M3 DUST

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 27.75% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

OSHA PEL:0.1MG/M3 FUME;1 DUST ACGIH TLV:0.2MG/M3 FUME;1 DUST

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON (III) OXIDE; (IRON OXIDE)

CAS:1309-37-1

RTECS #:NO7400000

Fr

action by Wt: 3% (MAX) OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3 (FE)

Ingred Name: MANGANESE (SARA III). TLV:5 MG/M3 DUST;3 MG/M3 FUME STEL.

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1% (MAX)

OSHA PEL:5 MG/M3 DUST, 5 C

ACGIH TLV:SEE INGREDIENT NAME

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 1% (MAX) OSHA PEL:10 MG/M3 TDUST

ACGIH TLV:10 MG/M3

Ingred Name: NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 3% (MAX) OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000 Fraction by Wt: 1.15%

OSHA PEL:10MG/M3 TDUST;5 RESP

ACGIH TLV:10MG/M3 TDUST

Ingred Name: VANADIUM (SARA III)

CAS:7440-62-2

RTECS #:YW1355000 Fraction by Wt: 4.5%

OSHA PEL:0.05 MG/M3 (V205) ACGIH TLV:0.05 MG/M3 (V205)

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

OSHA PEL:5 MG/M3;10 STEL ACGIH TLV:5 MG/M3;10 STEL

Ingred Name:SUPDAT:MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 52, PG 363, 1991:GRP 2

В.

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:MED ASSISTANCE. EYES:FLUSH W/COPIOUS AMTS OF CLEAN WATER FOR AT LST 15 MINS. IF IRRIT PERSISTS (ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:OBTAIN MED ASSISTANCE. CONT LENSES SHOULD NOT BE WORN IF WORKING W/METAL DUSTS/PWDRS. MED SURVEILLANCE: (ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:LUNG FUNCTION TESTS, CHEST X-RAYS & ROUTINE PHYSICAL EXAMS MAY BE USEFUL TO DETERMINE EFTS OF DUST/FUME EXPOSURE. RTECS #:9999999ZZ

Ingred Name:S

PILL PROC:IN WASTE CNTNR. METAL PWDRS/DUSTS MAY HAVE SIGNIFICANT IMPACT ON AIR & WATER QUALITY. AIRBORNE (ING 18) RTECS #:9999992Z

Ingred Name:ING 17:EMISSIONS, SPILLS & RELS TO ENVIRON (DISCHARGE TO STREAMS, SEWER SYS, GROUND WATER, SURF SOIL, ETC) (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:SHOULD BE CONTROLLED IMMED. IF SUCH POTNTL FOR SPILL/RELS EXISTS IT IS ADVISABLE TO DEVELOP EMER SPILL (ING 20) RTECS #:9999999ZZ

Ingred Name:ING 19:RESPONSE PLAN. RTECS #:9999999ZZ

Ingre

d Name: OTHER PREC: SOURCES OF IGNITION.

RTECS #:9999999ZZ

Ingred Name: VENT: TO ELEMENTS IDENTIFIED IN ING SECTION CAN BE BEST DETERMINED BY HAVING AIR SAMPLES TAKEN IN EMPLOYEE BRTHG (ING 23) RTECS #:9999999ZZ

Ingred Name:ING 22:ZONE, WORK AREA OR DEPARTMENT. RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:APPROPRIATE TO CIRCUMSTANCES OF EXPOSURE. RTECS #:9999999ZZ

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes

of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHAL:DUST, FUME OR POWDER MAY RESULT FROM THERMAL SPRAYING, WELDING, METALLIZING OR SIMILAR OPERATIONS WHICH GENERATE AIRBORNE METAL PARTICULATE. SKIN:CONTACT W/THIS MATERIAL MAY CAUSE, IN SOME SENSI TIVE INDIVIDUALS ALLERGIC RESPONSE IF ELEMENTS SUCH AS CHROMIUM, COBALT, COPPER & NICKEL ARE PRESENT. (EFTS OF OVEREXP)

Explanation of Carcin

ogenicity:CHROMIUM:IARC MONOGRAPHS, VOL 49, PG 49, 1990:GRP 1. NTP 7TH ANNUAL RPT ON CARCINS, 1992:KNOWN TO BE CARCIN. (SUPP DATA)

Effects of Overexposure:HLTH HAZ:IN FORM OF METAL OR POWDER, CONTACT OR ABRASION MAY ALSO CAUSE IRRITATION OR DERMATITIS. EYES:PARTICULATE METAL (DUST, FUME OR POWDER) MAY BE DANGEROUS TO EYE & SURROUNDING TISSUE. CONTACT NE HC FOR FURTHER INFORMATION.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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irst Aid Measures	========	=====	====	===	===

First Aid:INHAL:BRTHG DFCLTY REQS REMOVAL TO FRESH AIR. IF BRTHG HAS STOPPED, PERFORM ARTF RESP & OBTAIN MED ASSISTANCE AT ONCE. INGEST:CAN BE TREATED BY HAVING AFFECTED PERS SWALLOW LG QTYS OF WATER & ATTEMPTI NG TO INDUCE VOMIT IF CONSCIOUS. OBTAINMED ASSISTANCE AT ONCE. SKIN:CUTS & ABRASIONS CAN BE TREATED BY STD FIRST AID. CONTAM CAN BE REMOVED BY WASHING W/SOAP & WATER. IF IRRIT PERSISTS OBTAIN(ING 14)

= Fire Fighting Measures ==========

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE

Extinguishing Media:THIS ALLOY IS NONCOMBUST. USE EXTING MEDIA APPROP TO SURROUND FIRE. TO EXTING METAL PWDR FIRE USE DRY SAND, DRY (SUPDAT)

Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP .

IF THIS PWDR IS ATTRITIONED/REDUCED IN PARTICLE SIZE, CAUT MUST BE USED TO PVNT FIRE BY AVOIDING (SUPDAT)

Unusual Fire/Explosion Hazard:NO UNUSUAL FIRE OR EXPLOSION HAZ ARDS ARE

ASSOCIATED W/THIS MATERIAL.

======== Accidental Release Measures ===========

Spill Release Procedures:IN PWDR/DUST FORM, CLEAN-UP SHOULD BE CONDUCTED W/VACUUM SYS UTILIZING HIGH EFFICIENCY PARTICULATE AIR FILTRATION SYS. CAUT SHOULD BE TAKEN TO MIN AIRBORN GENERATION OF PWDR/DUST & AVOID CONTAM OF AIR & WATER. PROPERLY LBL ALL MATLS COLLECTED(ING 17)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

======== Handling and Storage

Handling and Storage Precautions:THIS PROD MUST BE HNDLD ACCORDING TO SIZE, SHAPE & QTY OF MATL INVOLVED. PWDRS SHOULD BE MOVED/TRANSPORTED TO MIN SPILL/RELS POTNTL.

Other Precautions:STORE METAL & METAL PWDR IN DRY AREA. DO NOT STORE ADJACENT TO MINERAL ACIDS. THIS IS NOT REGARDED AS FLAMM MATL, HOWEVER, IF THIS PWDR IS ATTRITIONED/REDUCED IN PARTICULAR SIZE, CAUT SHOULD BE TAKEN TO KEEP AWAY FROM FLAMES & (ING 21)

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

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATORS AS SPECIFIED BY INDUSTRIAL HYGIENIST OR QUALIFIED SAFETY PROFESSIONAL. LUNG FUNCTION TESTS ARE RECOMMENDED FOR USERS OF NEGATIVE PRESSURE DEVICES.

Ventilation:LOC EXHST VENT SHOULD BE USED TO CONTROL EXPOS TO AIRBORNE DUST & FUME WHENEVER POSS. ENVIRON SURVEILLANCE:EXPOS(ING 22)

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:PRO

T CLTHG SUCH AS UNIFORMS, DISPOSABLE

COVERALLS, SFTY SHOES, ETC MAY BE REQD DURING METAL HNDLG OPERATIONS AS (ING 24)

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXT MEDIA:GRAPHITE/OTHER CLASS "D" FIRE EXTING PWDR. FIRE FIGHT PROC:SOURCES OF IGNIT, FLAMES, ETC. HAZ DECOMP PROD:OPERATIONS. REFER TO ING SECTION FOR PELS. EXPLAN OF CARCIN:NICKEL:IARC MONOGRAPHS, SUPP, VOL 7, PG 264, 1987:GRP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1992:

ANTIC TO BE A CARCIN. COBALT: IARC (ING 13)

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

Melt/Freeze Pt:M.P/F.P Text:2475F,1357C

Spec Gravity:8.38 (H*2O=1) Solubility in Water:NONE

Appearance and Odor:POWDER, GRAY COLOR; NO ODOR.

Percent Volatiles by Volume: NONE

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

Stability Indicator/Materials to Avoid:YES

AVOID CONT W/MINERAL ACIDS & OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; EVOLUTION OF HYD

ROGEN MAY BE EXPLO HAZ.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:VARIOUS ELEMENTAL METALS & METAL
OXIDES MAY BE GENERATED DURING THERMAL SPRAYING, WELDING,
METALLIZING/SIMILAR (SUPDAT)

======= Disposal Considerations ==========

Waste Disposal Methods:PRIOR TO DISP CONSIDER IF MATL HAS RECOVERY VALUE. LOC, STATE/FED REGS MAY REQ SPECIFIC LABELING, PACKING, STOR, TRANSPORTATION & DISP PROCS. CONT ENVIRO N ENGINEER/CONSULTANT FAMILIAR W/WASTE DISP REG S.

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