ITEM: 4LE92 - END MILL COBALT 1/2 IN

PICK_REQ: 1134102526 MATERIAL SAFETY DATA SHEET (MSDS) MSDS: A6334

This MSDS should be attached or kept with the respective product with which it is associated.

Th ###### MATERIA	IS MS	DS SI	hould ####################################	d be ####### A6334	atta ******	ched ######	or k	ept \	with ******	the r	espe (ctive ###### 1G927,	pro 1G929,	duct 1G931,	With W ########## 1G933,_	/hich ######## 1G935	it is a ####### , 1G937,	1550C 1G939,	1 ate ##### 1G941	Cl. ####### , 1G943,	#### 1G94
	ated Gra										1G947, 1G969,	1G949, 1G971,	1G973,	51, 1G9: 1G:	53, 1G955, 975, 1G977, 997, 1G999,	1G957, 1G	3959, 10 1G981, 1	961, 1G G983, 10	963, 10 3 985, 3	3965, 1G9 1G987, 1G	967 3989 K012
4GB74, 4GB85,	4GB75, 4GB86,	4GB76, 4GB87,	4GB77, 4GB88,			4GB80, 4GB91,	4GB81, 4GB92,	4GB82, 4GB93,	4GB83, 4GB94,		1G991, 1K014, 1K198,	1G993, 1K016, 1K200,	1G995, 1K018, 1K202,		1K022,	1K026	, 1K188, , 1K210,	1K190, 1K212,	1K192 1K214	, 1K194,	1K19 1K21
4GB96, 1C242,	4GB97, 1C244,	4GB98, 1C246,	4GB99, 1C248,	4GE10, 1C250,	4GE11, 1C256,	4GE12, 1C258,	4GE13,	4GE14, 1C262,	10238, 10264,	10240 10266	1K220, 1K242,	1K222, 1K244,	1K224, 1K246,	1K226, 1K248,	1K228, 1K250,	1K230 1K252	, 1K232, , 1K254,	1K234, 1K256,	1K236 1K258	, 1K238, , 1K260,	1K24 1K26
10268, 10293,	10270, 10295,	10272, 10297,	10274, 10299,	10276, 10301,	1C303,	1C280, 1C305,	1C282,	1C284, 1C309,	1C289, 1C311,	1C291 1C313	1K264, 1K286,	1K266, 1K288,	1K268, 1K290,	1K270, 1K292,	1K294,	1K274 1K296	, 1K298,	1K278, 1K300,	1K280 1K302	, 1K304,	1K28 1K30
10315,	1C317, 1C339,	1C319, 1C341, 1C365,	10321, 10343, 10367,	1C323, 1C346, 1C369,	1C325, 1C348, 1C371,	10327, 10350, 10373,	1C329, 1C352, 1C375,	10309, 10331, 10354, 10377, 10400,	1C333, 1C357, 1C379,	1C335 1C359 1C381	1K308, 1K330, 1K352,	1K310, 1K332, 1K354,	1K312, 1K334, 1K356,	1K314, 1K336, 1K358,	1K316, 1K338, 1K360,	1K318 1K340 1K362	, 1K342,	1K322, 1K344, 1K366,	1K324 1K346 1K368	1K348,	1K32 1K35 1K37
1C383, 1C406.	1C363, 1C385, 1C408,	1C388, 1C410,	1C390, 1C412,	1C392, 1C414,	1C394,	1C396, 1C418,	1C398, 1C420,	1C422.	1C402, 1C424,	1C404 1C426	1K374, 1K396,	1K376, 1K398,	1K378,	1K380, 1K402,	1K382, 1K404,	1K384 1K406	, 1K386,	1K388, 1K410,	1K390 1K412	, 1K392,	1K39 1K41
10293, 10315, 1037, 10361, 10383, 10406, 10428, 10450, 10473, 10517, 10539, 10561, 10583, 10605, 10605,	1C430, 1C452,	1C432, 1C454,	1C434, 1C456,	1C436, 1C459,	1C438, 1C461.	1C440, 1C463,	1C442, 1C465,	1C444,	1C446, 1C469,	1C448 1C471	1K418,	1K420, 1K442,	1K422, 1K444,	1K424, 1K446,	1K426, 1K448,	1K428 1K450	, 1K430, . 1K452.	1K432, 1K454,	1K434 1K456	, 1K436, 1K458,	1K43 1K46
1C473, 1C495,	1C475, 1C497,	1C477, 1C499,	1C479, 1C501,	1C481, 1C503.	1C483,	1C485, 1C507,	1C487, 1C509,	1C489, 1C511, 1C533,	1C491, 1C513,	1C493 1C515	1K462, 1K484,	1K464, 1K486,	1K466, 1K488,	1K468, 1K490,	1K470, 1K492,	1K472 1K494	, 1K474, , 1K496,	1K476, 1K498,	1K478 1K500 1K522	1K502,	1K48 1K50 1K52
1C517, 1C539,	1C519, 1C541, 1C563,	1C521, 1C543, 1C565,	1C523, 1C545, 1C567,	1C525, 1C547, 1C569, 1C591,	1C527, 1C549, 1C571,	1C529, 1C551, 1C573, 1C595,	1C531, 1C553, 1C575,	10533,	1C535, 1C557, 1C579,	1C537 1C559 1C581	1K506, 1K528, 1K550,	1K508, 1K530, 1K560,	1K510, 1K532, 1K562,	1K512, 1K534, 1K564,	1K514, 1K536, 1K566,	1K516 1K538 1K568	, 1K540,	1K520, 1K542, 1K572,	1K544 1K574	, 1K546,	1K54 1K57
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1C671, 1C693, 1C715, 1C737,	1C673, 1C695, 1C717,	1C675, 1C697, 1C719,	1C677, 1C699, 1C721,	10701,	10703,	1C683, 1C705, 1C727,	1C685, 1C707, 1C729,	10709,	1C689, 1C711, 1C733,	1C691 1C713 1C735	1K668, 1K690, 1K712,	1K670, 1K692, 1K714,	1K672, 1K694, 1K716,	1K674, 1K696, 1K718,	1K676, 1K698, 1K720,	1K678 1K700 1K722	, 1K702,	1K682, 1K704, 1K726,	1K684 1K706 1K728	, 1K708,	1K68 1K71 1K73
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1E443, 1E465, 1E487,	1E445, 1E467, 1E489,	1E447, 1E469, 1E491,	1E449, 1E471, 1E493,	1E451, 1E473, 1E495,	1E475,	1E455, 1E477, 1E499,	1E457, 1E479, 1E501,	1E459, 1E481, 1E503,	1E461, 1E483, 1E505,	1E463 1E485 1E507	1M003, 1M025, 1M047,	1M005, 1M027, 1M049,	1M007, 1M029, 1M051,	1M009, 1M031, 1M053,	1M011, 1M033, 1M055,	1M013 1M035 1M057	, 1M037,	1M017, 1M039, 1M061,	1M019 1M041 1M063	, 1M043,	1M02 1M04 1M06
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1F643, 1F665, 1F687, 1F709,	1F667, 1F689,	1F669, 1F691,	1F671, 1F693,	1F673, 1F695,	1F653, 1F675, 1F697,	1F677, 1F699,	1F679, 1F701,	1F659, 1F681, 1F703,	1F683, 1F705,	1F685 1F707	1M663, 1M685, 1M707,	1M665, 1M687, 1M709,	1M689, 1M711,	1M691, 1M713,	1M671, 1M693, 1M715,	1M695 1M717	, 1M675, , 1M697, , 1M719,	1M699, 1M721,	1M701 1M723	1M703,	1M70 1M72
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	1F799, 1F821, 1F843,	1F801, 1F823, 1F845,	1F803, 1F825, 1F847,	1F805, 1F827, 1F849,	1F807, 1F829, 1F851,	1F809, 1F831, 1F853,	1F811, 1F833, 1F855,	1F813, 1F835, 1F857,	1F815, 1F837, 1F859,	1F817 1F839 1F861	1M817, 1M839, 1M861,	1M819, 1M841, 1M863,	1M821, 1M843, 1M865,	1M823, 1M845, 1M867,	1M825, 1M847, 1M869,	1M827 1M849 1M871	, 1M829, , 1M851, , 1M873,	1M831, 1M853, 1M875,	1M833 1M855 1M877	1M857,	1M83 1M85 1M88
1F841, 1F863, 1F885, 1F907,	1F865, 1F887,	1F867, 1F889,	1F869, 1F891,	1F871, 1F893,	1F873, 1F895,	1F875, 1F897,	1F877, 1F899,	1F879, 1F901,	1F881, 1F903,	1F883 1F905	1M883, 1M905,	1M885, 1M907,	1M887, 1M909,	1M889, 1M911,	1M891, 1M913,	1M893 1M915	, 1M895, , 1M917,	1M897, 1M919,	1M899 1M921	1M901, 1M923,	1M90 1M92
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1X004,
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1X002,
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1W651,
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1X120,
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1X090,
1X112,
1X134,
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1X138,
1X192,
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1X300,
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1X124,
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1X126
 1X084
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 1X106
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1X130,
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1X204,
1X226,
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1X206,
1X250,
1X286,
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1X200,
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1X212,
1X264,
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 1X210
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1X379,
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1X312,
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1X363,
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1X360
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GREENFIELD INDUSTRIES, INC.
P.O. BOX 2587
AUGUSTA, GA 30913
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1X411,
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1X472
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THE 3E COMPANY: 1-800-451-8346
                                    1X466,
 1X464
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1X491,
1X519,
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1X671
1X695
1X717
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 1X627
1X649
1X673
                                                                                                                                                                                                                                                                                                                                                                  MATERIAL
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NUMBER
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1X727,
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(MG/M3)
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 1X697
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1X721,
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1X723,
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 1X719
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1P219

IRON (Fe)	7439-89~	6 50-	-90 10	NONE ESTABLISHED	
**TUNGSTEN (W)	7440-33-	7 1-2	20 15	5	
MOLYBDENUM (Mo)	7439-98~7	0.5-	-10 15	10	
*CHROMIUM (Cr)	7440-47 -	3 1-5	5 1	0.5	
VANADIUM (V)	· 7440-62-	2 1-5	5 5	5	
*COBALT (Co)	7440-48-	4 5-1	LO 0.1	0.02	
MATERIAL	NFPA HAZ HEALTH	ARD RAT	TING SCALE 0 REACTIVITY		
IRON (Fe)	0	3	0		
**TUNGSTEN (W)	1	3	0		
MOLYBDENUM (Mo)	1	1	0		
*CHROMIUM (Cr)	2	1	1		
VANADIUM (V)	2	0	0		
*COBALT (Co)	2	3	0		

- * IDENTIFIES SUBSTANCES THAT ARE SUBJECT TO THE REQUIREMENTS OF SECTION 313 OF TITLE III OF SUPERFUND AMENIMENTS AND REALTHORIZATION ACT OF 1986 AND 40 CFR PART 372.
- ** THIS SUBSTANCE IS REGULATED BY OSHA AS A PARTICULATE NOT OTHERWISE REGULATED (PNOR). THE EXPOSURE LIMIT LISTED FOR OSHA REFERS TO TOTAL DUST; THE OSHA PEL FOR THE RESPIRABLE FRACTION IS $5\ \text{MG/M3}$.

- SECTION 3 - HAZARDS IDENTIFICATION -

OPERATIONS SUCH AS WELDING, GRINDING, POLISHING, MELITING, AND ERAZING MAY CAUSE DUST OR FUME GENERATION WHICH (AN RESULT IN EXPOSURE TO THE ELEMENTS PRESENT IN THE ALLOY.

(NOTE: HEALTH EFFECTS LISTED ARE FOR EXPOSURE TO METALLURGICAL POWDERS, DUST, OR MIST FROM ALITERING THE TOOL. NO HEALTH EFFECTS HAVE BEEN REPORTED FOR EXPOSURE TO THIS MATERIAL IN SOLID FORM.)

INDITIONAL TOUR LIBRARY SENSITIZER:

250 MG(Cr)/M3, 35 MG(V)/M3 OR 10 MG(Co)/M3 IS IMMEDIATELY DANGEROUS TO LIFE AND HEALITH.

ACTURE OVEREXPOSURE

ACUTE OVEREXPOSURE:
SYMPTONS OF METAL FUNE FEVER INCLUDING CHILLS, FEVER, SWEATING, NAUSEA, AND
COUGH MAY APPEAR. METAL FUNE FEVER BEGINS 4 TO 12 HOURS AFTER EXPOSURE AND
LASTS 24 HOURS WITHOUT CAUSING PERMANENT DAMAGE. OTHER EFFECTS CAUSED BY
DUST AND FUNE INFALATION INCLUDE METALLIC TASTE, EVES, NOSE, AND THROAT
IRRITATION, WHEEZING, DIFFICULTY BREATHING, AND CHEST PAIN.

CHRONIC OVEREXPOSURE:

CHRONIC OVEREXPOSURE:
MAY CAUSE RESPIRATORY TRRITATION, BRONCHITIS, ALLERGIC RESPIRATORY
REACTION, OBSTRUCTED AIRWAYS, BUILD-UP OF DUST IN THE LINGS, DAMAGE TO LING
TISSUE, AND LUNG DISEASE, WITH SYMPTOMS AS DESCRIBED IN ACUTE OVEREXPOSURE,
ESPECIALLY INFLAMMATION OF THE RESPIRATORY TRACT, NOSE AND THROAT
IRRITATION, VIOLENT COUGHING, WHEEZING, RASPING, AND SHORTNESS OF BREATH.
THERE MAY ALSO BE BLOOD CHANGES, LIVER AND KIDNEY DAMAGE, AND AN INCREASED
SUSCEPTIBILITY TO RESPIRATORY CHANGES.

SKIN CONTACT: IRRITANT.

ACUTE OVEREXPOSURE: MAY CAUSE TRRITATION.

CHRONIC OVEREXPOSURE: MAY CAUSE INFLAMMATION AND/OR RASH (IRRITANT OR ALLERGIC CONTACT DERMATITIS).

EXE CONTACT: IRRITANT.
ACUTE OVEREXPOSURE: MAY CAUSE IRRITATION WITH REDNESS, PAIN, AND ITCHING. CHRONIC OVEREXPOSURE: MAY CAUSE CONJUNCTIVITIS.

INGESTION: IRRITANT.

ACUTE OVEREXPOSURE: INCESTION OF LARGE AMOUNTS OF STEEL DUST IS HIGHLY UNLIKELY. HOWEVER, INCESTION OF SMALL AMOUNTS MAY OCCUR BY EATING OR SMOKING WITH CONTAMINATED HANDS

CHRONIC OVEREXPOSURE:

MAY PRODUCE THE SAME SYMPTOMS AS FOR ACUITE OVEREXPOSURE. MAY ALSO ADVERSELY AFFECT THE PANCREAS, THYROID GLAND, HEART, OR BONE MARROW.

- SECTION 4 - FIRST AID MEASURES -

INHALATION:

INHALATION:
IF SYMPTOMS OF PULMONARY INVOLVEMENT DEVELOP (COUCHING, WHEEZING, SHORINESS OF BREATH), REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERRORM ARTIFICIAL RESPIRATION, KEEP AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
IF IRRITATION OR RASH OCCURS, REMOVE CONTAMINATED CLOTHING AND SHOES
IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE
AMOUNTS OF WATER UNTIL NO EVIDENCE OF MATERIAL REMAINS (APPROXIMATELY 15-20
MINUTES). GET MEDICAL ATTENTION.

IF IRRITATION OCCURS, WASH EXES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF MATERIAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
IF THIS MATERIAL HAS BEEN SWALLOWED AND PERSON IS CONSCIOUS, IMMEDIATELY
GIVE PERSON LARGE AMOUNTS OF WATER. DO NOT ATTEMPT TO MAKE AN UNCONSCIOUS
PERSON DRINK OR VOMIT. GET MEDICAL ATTENTION IMMEDIATELY. INDUCE VOMITING
ONLY IF SPECIFICALLY INSTRUCTED BY A PHYSICIAN.

- SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:
FINE METAL PARTICLES PRODUCED WHEN GROUND, SAWED, ETC. CAN BURN. HIGH
CONCENTRATIONS OF THESE PARTICLES IN THE AIR MAY PRESENT AN EXPLOSION
HAZARD.

FLASH POINT: NONE REPORTED.

EXTINGUISHING MEDIA:

IN SOLID FINISHED FORM, WILL NOT BURN. USE WATER TO COOL.

SPECIAL FIREFIGHTING PROCEDURES:
DO NOT RELEASE RUNOFF FROM FIRE CONTROL METHODS TO SEWERS OR WATERWAYS.
BECAUSE FIRE MAY PRODUCE TOXIC THERMAL DECOMPOSITION PRODUCTS, WEAR A
SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACEPIECE OPERATED IN
PRESSURE-DEMAND OR POSITIVE-PRESSURE MODE.

- SECTION 6 - ACCIDENTAL RELEASE MEASURES -

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
SWEEP UP WITH MINIMUM AMOUNT OF DUST GENERATION AND PLACE IN SUITABLE
CLEAN, DRY CONTAINERS FOR LATER DISPOSAL OR RECLAMATION. RESIDUE SHOULD BE
CLEANED UP USING A HIGH EFFICIENCY PARTICULATE FILTER VACUUM OR WET CLEAN
UP.

HANDLING AND STORAGE -- SECTION 7 -

HANDLING PRECAUTIONS:

OPERATIONS SUCH AS WELDING, DUST GENERATION, OR FUME GENERATION CAN RESULT IN HAZARDOUS EXPOSURE TO THE ELEMENTS PRESENT IN THE ALLOY IF NECESSARY PRECAUTIONS AREN'T TAKEN. PROTECT AGAINST DUST AND FUME INFALATION AND SKIN OR EYE CONTACT. USE ONLY WITH LOCAL EXHAUST VENTULATION. IF THE STEEL IS CONTAMINATED WITH OIL OR OTHER COMPOUNDS, TAKE PRECAUTIONS TO PREVENT ADDITIONAL EXPOSURE TO THE CONTAMINANTS WHEN HANDLING, WELDING, CUITING, AND/OR HEATING OR MELTING. HANDLING PRECAUTIONS:

STORAGE REQUIREMENTS: STORE IN A MANNER THAT PREVENTS ACCIDENTAL ENVIRONMENTAL CONTAMINATION FROM TRACES OF INDUSTRIALLUBRICANTS OR WETTING OILS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION -

VENTILATION:

PROVIDE LOCAL EXHAUST VENTILATION OR GENERAL DILUTION TOMAINIAIN EXPOSURE LEVELS BELOW THE PEL AND TLV.

RESPIRATORY PROTECTION:

0.05 MG (Co)/MB - SINGLE-USE APPROVED DUST AND MIST RESPIRATOR.

0.5 MG (Co)/M3 - DUST MASK, EXCEPT SINGLE-USE RESPIRATOR.

 $1\ \text{MG}\ (\text{CO})\slash\hspace{-0.05cm}/\text{M3}$ - DUST $\slash\hspace{-0.05cm}\text{MASK},$ EXCEPT SINGLE-USE AND QUARTER-MASK RESPIRATOR. FUME OR HIGH EFFICIENCY PARTICULATE RESPIRATOR.

5 MG (CO)/MB - HIGH EFFICIENCY PARTICULATE RESPIRATOR WITH A FULL FACEPIECE, SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE, HEIMET OR HOOD. SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE.

20 MG (Co)/M3 - POWERED AIR-PURIFYING RESPIRATOR WITH A HIGH EFFICIENCY FILTER WITH A FULL FACEPIECE. TYPE "C" SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

FIREFIGHTING:

SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CEDITATES MUST WEAR APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH THIS SUBSTANCE. SOILED CLOTHING SHOULD BE LAUNDERED SEPARATELY.

GLOVES: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES OR BARRIER CREAMS TO PREVENT CONTACT WITH THIS SUBSTANCE.

SAFETY CLASSES WITH SIDE SHIELDS OR GOGGLES ARE RECOMMENDED. WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY BE EXPOSED TO THIS SUBSTRANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMPREENCY USE. CONTACT LENSES SHOULD NOT BE WORN WHEN HANDLING THESE MATERIALS.

- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -

APPEARANCE AND ODOR: SOLID, ODORLESS MATERIALS

BOILING POINT: 5000 DEG. F

SOLUBILITY IN WATER: PRACTICALLY INSOLUBLE

MELTING POINT: 2500 DEG. F

PETROLEUM BASED SOLVENT SOLUBILITY: PRACTICALLY INSOLUBLE

SPECIFIC GRAVITY: (H2O=1): 7.8 TO 8.2

SECTION 10 - STABILITY AND REACTIVITY -

STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURE.

DECOMPOSITION:

THERMAL OXIDATIVE OXIDES.

DECOMPOSITION OF STEEL CAN PRODUCE METALLIC AND CARBON

INCOMPATIBILITIES:

THUORINE OR PHOSPHORUS: MAY BECOME INCANDESCENT WHEN HEATED. CHLORINE TRIFILIORIDE: MAY CAUSE INCANDESCENTREACTION. HYDROGEN PEROXIDE: VIOLENTLY DECOMPOSES ON CONTACT.

THE PROPERTY OF

OF OXIDANTS: IGNITES UPON HEATING. AIR + WIDE RANGE

ALKALI, ALKALINE-EARTH METALS WITH HALOCARBONS: RESULTS IN HEAT- OR IMPACT-SENSITIVE EXPLOSIONS.

BROMINE TRIFLUORIDE: REACTS VIGOROUSLY.

MOLYBDENUM:

BROMINE PENIAFLUORIDE: INCANDESCENT AT AMBIENT OR SLIGHTLY ELEVATED TEMPERATURES.

BROMINE TRIFLUORIDE, CHLORINE TRIFLUORIDE, LEAD DIOXIDE, NITRYL FLUORIDE, OR IODINE PENTAFLUORIDE: INCANDESCENT REACTION WHEN HEATED.

FLUORINE: INCANDESCENT REACTION AT 205 DEG. C.

SODIUM PEROXIDE: EXPLOSIVE REACTION AT 240 DEG. C.

POTASSIUM PERCHLORATE: IGNITES AT 330 DEG. C.

CHROMITIM:

AMMONIUM NITRATE: MAY PRODUCE VIOLENT OR EXPLOSIVE REACTION.

CARBON DIOXIDE: CHROMIUM DUST MAY BECOME IGNITABLE AND EXPLOSIVE.

BROMINE PENTAFLUORIDE: MAY CAUSE VIOLENT REACTION.

NITROGEN OXIDE OR SULFUR DIOXIDE:
MAY PRODUCE VIGOROUS REACTION WITH INCANDESCENCE.

VANADIUM: OXIDANTS, NITRYL FLUORIDE, LITHIUM, CHLORINE, BROMINE TRIFLUORIDE: VIOLENT REACTION.

AMMONIUM NITRATE + METALS OR BROMINE PENTAFLUORIDE: REACTS VIOLENTLY AND SOMETIMES EXPLOSIVELY.

HYDRAZINIUM NITRATE: DECOMPOSES EXPLOSIVELY UPON RAPID HEATING.

NITRYL FLUORIDE, ACETYLENE: REACTS INCANDESCENTLY.

SECTION 11 - TOXICOLOGICAL INFORMATION -

MOLYBDENUM: MOLYBDENUM IS AN EYE AND MUCOUS MEMBRANE IRRITANT. INDIVIDUALS WITH A HISTORY OF KIDNEY, CHRONIC RESPIRATORY, OR LIVER DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE.

RAT INTRAPERITONEAL LDLO: 114 MG/KG.

RABBIT INTRATRACHEAL LDLO: 70 MG/KG

CHROMITIM:

CHROMIUM:
CARCINOGENIC STATUS:
THERE IS EVIDENCE OF INCREASED INCIDENCE OF LUNG CANCER AMONG CHROMIUM
ALLOY WORKERS. HOWEVER, ACCORDING TO IARC, THE CHROMIUM COMPOUNDS
RESPONSIBLE CANNOT BE SPECIFIED.

CARCINOGENIC STATUS:

CARCINOGENIC STATUS:
THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) LISTS COBALIT AND
COBALIT COMPOUNDS AS CATEGORY 2B CARCINOGENS (POSSIBLY CARCINOGENIC TO
HUMANS). COBALIT FOMES OR DUST MAY CAUSE PULMCMARY, SKIN, OR EXE IRRITATION.
COBALIT MAY BE A SENSITIEITING AGENT FOR SKIN AND RESPIRATION; SYSTEM. CHRONIC
EXPOSURE MAY AFFECT THE HEART, PANCREAS, THYROID GLAND, OR BONE MARROW.

RAT ORAL LDLO: 1500 MG/KG. RABBIT ORAL LDLO: 20 MG/KG

RAT INTRAPERITONEAL LDLO: 250 MG/KG RABBIT INTRATRACHEAL LDLO: 100 MG/KG

RAT INTRAVENOUS LDLO: 100 MG/KG

- SECTION 12 - ECOLOGICAL INFORMATION

NO DATA ARE AVAILABLE.

- SECTION 13 - DISPOSAL CONSIDERATIONS -

WASTE DISPOSAL METHOD: THIS IS A VALUABLE MATERIAL THAT SHOULD BE SENT TO AN APPROPRIATE RECLAMATION FACILITY IF AVAILABLE. IF MATERIAL CANNOT BE SENT TO A RECLAMATION FACILITY, DISPOSAL SHOULD BE MADE IN COMPLIANCE WITH FEDERAL, PROVINCTAL/STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

- SECTION 14 - TRANSPORT INFORMATION

MAY BE CLASSIFIED AS A HAZARDOUS SUBSTANCE WHEN IT IS IN A QUANTITY, I PACKAGE, IN WHICH INDIVIDUAL, REGULATED COMPONENTS EQUAL OR EXCEED THE REPORTABLE QUANTITIES ESTABLISHED BY THE DEPARTMENT OF TRANSPORTATION. IN ONE

- SECTION 15 - REGULATORY INFORMATION

SOME INCREDIBNIS IN GREENFIELD PRODUCTS, INCLUDING COBALT, NICKEL, COPPER, CHROMIUM AND CHROMIUM COMPOUNDS, ARE SUBJECT TO THE REQUIREMENTS OF SECTION 313 OF TITLE III OF SUPERFUND AMENIMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

- SECTION 16 - OTHER INFORMATION

ALIHOUCH GREENFIELD INDUSTRIES AND KENNAMETAL INC. HAVE ATTEMPTED TO PROVIDE CURRENT AND ACCURATE INFORMATION HEREIN, GREENFIELD INDUSTRIES AND KENNAMETAL INC. MAKE NO REPRESENTATIONS REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND ASSUMES NO LIABILITY FOR ANY LOSS, DAMAGE, INJURY OF ANY KIND WHICH MAY RESULT FROM OR ARISE OUT OF THE USE OF OR RELIANCE ON THE INFORMATION BY ANY PERSON.

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