

KENNAMETAL,INC. -- TUNGSTEN CARBIDE WITH COBALT BINDER; KS-12 -- 3439-00-235-8202
===== Product Identification =====

Product ID:TUNGSTEN CARBIDE WITH COBALT BINDER; KS-12

MSDS Date:10/01/1985

FSC:3439

NIIN:00-235-8202

MSDS Number: BDLQF

=== Responsible Party ===

Company Name:KENNAMETAL,INC.

Address:981 SOUTH

Box:231

City:LATROBE

State:PA

ZIP:15650

Country:US

Info Phone Num:412-539-5445

Emergency

Phone Num:CHEMTREC 800-424-9300

CAGE:KO754

=== Contractor Identification ===

Company Name:KENNAMETAL, INC.

Address:981 SOUTH

Box:231

City:LATROBE

State:PA

ZIP:15650-0231

Country:US

Phone:412-539-5000

CAGE:85597

Company Name:KENNAMETAL,INC.

Address:981 SOUTH

Box:231

City:LATROBE

State:PA

ZIP:15650

Country:US

Phone:412-539-5445

CAGE:KO754

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

Ingred Name:TUNGSTEN CARBIDE

CAS:12070-12-1

RTECS #:YO7250000

Fraction by Wt: 70-98%

Other

REC Limits:5 MG/CUM
OSHA PEL:5 MG/M3/10 STEL (W)
ACGIH TLV:5 MG/M3/10 STEL (W)

Ingred Name:COBALT (SARA III)
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: 2-30%
Other REC Limits:0.1 MG/CUM
OSHA PEL:0.1 MG/M3;AS CO
ACGIH TLV:0.05 MG/M3;DUST 9293

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

LD50 LC50 Mixture:N/K - CO 1500 MG/KG ORAL RAT
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRODUCT IS IRRITATING TO SKIN,EYES AND MUCOUS MEMBRANES AND MAY CAUSE TEMPORARY OR PERMANENT RESPIRATORY DISEASE. 20 MG/CUM COBALT IS CONSIDERED IMMEDIATELY DANGEROUS TO LIFE AND HEALTH
Explanation of Carcinogenicity:GERMAY LISTS COBALT AS AN ANIMAL CARCINOGEN. U.S. AGENCIES SHOW NO LISTING AT ALL.
Effects of Overexposure:EYE:PAIN,ITCHING.SKIN:DERMATITIS,ECZEMA,ITCHING.INHAL: COUGH,DYSPNEA,HEMOPTYSIS,PULMONARY FIBROSIS.INGEST:HYPOTENSION,PAIN,NAUSEA,VOMITING ,G/I IRRITATION,DIARRHEA,CONVULSIONS
Medical Cond Aggravated by Exposure:SOME PULMONARY SKIN CONDITIONS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

===== First Aid Measures =====

First Aid:INHAL:RMV TO FRESH AIR. IF NOT BRTHNG GIVE CPR; IF BRTHNG DIFF GIVE OXYGEN. EYE:IMMED FLUSH W/PLENTHY OF WATER. SKIN:WASH W/SOAP&WATER. RMV CONTAM CLTHG&SHOES. INGEST:INDUCE VOMIT. RPT UNTIL VOMIT IS C LEAR. NOTHG BY MOUTH IF UNCONSC. GET MEDICAL AT TN.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:SAND, DOLOMITE, SODIUM CHLORIDE, SODA ASH
Fire Fighting Procedures:USE SELF CONTAINED BREATHING APPARATUS
Unusual Fire/Explosion Hazard:FINELY DIVIDED DUST MAY BE A FIRE AND EXPLOSION HAZARD WHEN EXPOSED TO HEAT AND IGNITION SOURCE.

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

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

SWEEP UP AND PLACE IN CLEAN CONTAINERS FOR RECOVERY OR DISPOSAL.
CLEAN UP RESIDUE WITH HEPF VACUUM.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN CLEAN,COOL,DRY AREA. AVOID
DISPERSING DUST IN AIR AND IGNITION SOURCES

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

Respiratory Protection:0.5 MG/CUM CO - DUST MASK (NOT SINGLE USE):1
MG/CUM CO - FUME OR HIGH EFFICIENCY PAR

TICULATE RESPIRATOR:5 MG/CUM

CO - HIGH EFFICIENCY OR SUPPLIED AIR WITH FULL FACE PLATE:20 MG/CUM

CO - SUPPLIED AIR W ITH HEPF AND FULL FACE IN POS.PRES.MODE

Ventilation:PROVIDE MECHAN(GEN/LOCAL EXHAUST)VENT TO MAINTN