

UCAR CARBON CO INC -- GRAFOIL -- 5330-01-373-7885

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

Product ID:GRAFOIL

MSDS Date:10/20/1992

FSC:5330

NIIN:01-373-7885

MSDS Number: BVNJJ

=== Responsible Party ===

Company Name:UCAR CARBON CO INC

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:800-822-4357

Emergency Phone Num:800-822-4357

CAGE:42451

=== Contractor Identification ===

Company Name:UCAR CARBON CO INC SUB OF UNION CARBIDE CORP

Address:12900 SNOW RD

Box:City:PARMA

State:OH

ZIP:44130-1012

Country:US

Phone:216-676-2000

CAGE:42451

Company Name:UNION CARBIDE CORP

Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357/732-563-5522 (MSDS)

CAGE:61637

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

Ingred Name:GRAPHITE; (NATURAL GRAPHITE)

CAS:7782-42-5

RTECS #:MD9659600

Fraction by Wt: 100%

O

SHA PEL:15 MPPCF
ACGIH TLV:2 MG/M3 RDUST

Inged Name:SUPP DATA:SEWERS, GROUNDWATER OR SOIL. RELEASES MAY BE
REPORTABLE TO LOCAL, STATE OR FEDERAL AUTHORITIES.
RTECS #:9999999ZZ

Inged Name:OTHER PREC:UP ANY SPILLS THAT MAY OCCUR. ANY DUSTS
GENERATED DURING HNDLG/PROCESSING SHOULD BE CLEANED UP BY WET (ING
4)
RTECS #:9999999ZZ

Inged Name:ING 3:MOPPING/VACUUMING W/UNIT WHICH CONTAINS HEPA FILTER.
DRY SWEEPING CAN RESUSPEND PARTICULATE MATTER IN ATM. (ING 5)
RTECS #:9999999ZZ

I
Inged Name:ING 4:GRAPHITE DUSTS ARE ELEC CONDUCTIVE. ACCUMS OF DUST
MAY CAUSE SHORTING OF ELEC CIRCUITS. CARE SHOULD BE (ING 6)
RTECS #:9999999ZZ

Inged Name:ING 5:TAKEN TO SEAL ELEC CIRCUITS & SWITCHES THAT MAY BE
AFFECTED. DUSTS SHOULD NOT BE EMITTED TO ATM WHERE THEY (ING 7)
RTECS #:9999999ZZ

Inged Name:ING 6:MAY SETTLE ON & CAUSE SHORTING OF OUTSIDE ELECTRICAL
EQUIPMENT.
RTECS #:9999999ZZ

Inged Name:RESP PROT:HYGIENIST/YOUR RESP PROT EQUIP SUPPLIER FOR
SELECTION OF PROPE
R EQUIP. EVAL OF NEED FOR RESP PROT (ING 9)
RTECS #:9999999ZZ

Inged Name:ING 8:SHOULD BE DETERMINED BY A PROFESSIONAL INDUSTRIAL
HYGIENIST.
RTECS #:9999999ZZ

Inged Name:VENT:DESIGN DETAILS FOR LOC EXHST VENT SYS MAY BE FOUND IN
LATEST EDITION OF "INDUS VENT:MANUAL OF REC PRACTS" (ING 11)
RTECS #:9999999ZZ

Inged Name:ING 10:PUBLISHED BY ACGIH COMMITTEE ON INDUS VENT, P.O. BOX
16153, LANSING, MI 48910. NEED FOR LOC EXHST VENT (ING 12)
RTECS #:9999999ZZ

Inged Name:ING 11:SHOULD

BE EVALUATED BY PROFESSIONAL INDUSTRIAL
HYGIENIST. LOC EXHST VENT SYS SHOULD BE DESIGNED BY (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:PROFESSIONAL ENGINEER.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:HIGH CONCENTRATIONS OF GRAPHITE
DUSTS MAY BE
IRRITATING TO EYES, SKIN, MUCOUS MEMBRANES &
RESPIRATORY TRACT. CHRONIC:INHALATION OF HIGH CONCENTRATIONS OF
GRAPHITE DUSTS OVER PROLONGED PERIODS OF TIME MAY CAUSE GRAPHITE
PNEUMOCONIOSIS. SYMPTOMS CAN INCLUDE COUGH, SHORTNESS OF BREATH &
DECREASE IN (EFTS OF OVEREXP)
Explanation of Carcinogenicity:NOT RELEVANT
Effects of Overexposure:HLTH HAZ:PULMONARY FUNCTION.
Medical Cond Aggravated by Exposure:PREEXISTING PULMONARY DISORDERS
SUCH AS EMPHYSEMA MAY POSSIBLY BE AGGRAVATE
D BY PROLONGED EXPOSURE
TO HIGH CONCENTRATIONS OF GRAPHITE DUSTS.

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

First Aid:INHAL:REMOVE EXPOS PERS TO FRESH AIR. IF BRTHG IS DFCLT,
OXYGEN MAY BE ADMIN. IF BRTHG HAS STOPPED, ARTF RESP SHOULD BE
STARTED IMMED. SEEK MED ATTN. EYE:FLUSH W/WATER FOR AT LST 15 MINS.
SEEK MED ATT N IF IRRIT DEVELOPS/PERSISTS. SKIN:WASHTHORO W/MILD
SOAP & WATER. SEEK MED ATTN IF IRRIT DEVELOPS/PERSISTS. DERM SHOULD
BE TREAT
ED SYMPTOMATICALLY BY MD. INGEST:GIVE 2 GLASSES OF WATER &
(SUPP DATA)

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

Extinguishing Media:BULK MATERIAL IS NON-COMBUSTIBLE. DUSTS ARE
COMBUSTIBLE - USE WATER, CARBON DIOXIDE, DRY CHEMICAL OR FOAM.
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT . MATERIAL IN OR NEAR FIRES SHOULD BE COOLED W/WATER
SPRAY OR FOG.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

===

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

Spill Release Procedures:SPILLED/RELS MATL SHOULD BE PICKED UP W/SUITABLE IMPLEMENT & RETURNED TO ORIGINAL CNTNR IF REUSABLE. IF NOT REUSABLE, MATL SHOULD BE PLACED IN DOT APPRVD CNTNRS FOR DISP. PERS INVOLVED IN CLEANUP SHOU LD WEAR APPROP PERSONAL PROT EQUIP. UNAUTH(SUPDAT)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage

Precautions:ALL CHEMS SHOULD BE HNDLD SO AS TO PVNT EYE CONT & EXCESSIVE/RPTD SKIN CONT. APPROP EYE & SKIN PROT SHOULD BE EMPLOYED.

Other Precautions:INHAL OF DUSTS & VAPS SHOULD BE AVOIDED. STORE IN LABELED, CLSD CNTNRS AWAY FROM HEAT, SPKS, OPEN FLAMES & OTHER SOURCES OF IGNIT. DO NOT STORE WITH/NEAR INCOMPAT CHEMS. DO NOT LET CNTNRS OF MATL ACCU M IN WORKPLACE. PROMPTLY CLEAN (ING 3)

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

Respiratory Protecti

on:IF EXPOS EXCEED LIMS BY LESS THAN FACTOR OF 10, USE MIN NIOSH/MSHA APPRVD 1/2 FACEPIECE RESP EQUIPPED W/CARTRIDGES FOR PARTICULATE MATTER W/EXPOS LIM OF NOT 5000F,>2760C. % VOLAT:NON-VOLAT. HAZ

DECOMP PROD:HAS NOT BEEN

CHARACT. THESE WOULD BE EXPECTED ONLY DURING EMER CNDTNS. FIRST AID PROC:INDUCE VOMIT. NEVER GIVE ANYTHING BY MOUTH TO UNCON PERS. SEE K MED ATTN. SPILL PROC:PERS SHOULD BE KEPT CLEAR OF AREA OF SPILLS/RELS. DO NOT ALLOW MATL TO ENTER STORM/SANIT (ING 2)

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

Melt/Freeze Pt:M.P/F.P Text:SUPP DATA

Spec Gravity:0.3-1.8

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BLACK, FLEXIBLE SHEET, SHAPES; NO ODOR.

Percent Volatiles by Volume:SUPDAT

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT W/STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE THAT ARE KNOWN.

Hazardous Decomposition Products:THERMA

L DECOMP/COMBUST MAY PRDCE DENSE
SMOKE, OXIDES OF CARBON & LOW MOLECULAR WT ORG CMPDS WHOSE
COMPOSITION (SUPDAT)

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

Waste Disposal Methods:MATERIAL SHOULD BE DISPOSED OF I/A/W ALL
APPLICABLE FEDERAL, STATE & LOCAL REGULATIONS. DISPOSAL IN AN EPA
APPROVED LANDFILL IS RECOMMENDED.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.