

CRYSTALLINE SILICA QUARTZ

MSDS Number

BLCJL

National Stock Number

6810-00N017432

Product Name

CRYSTALLINE SILICA QUARTZ

Manufacturer

US SILICA COMPANY

Product Identification

Product ID:CRYSTALLINE SILICA QUARTZ

MSDS Date:02/01/1990

FSC:6810

NIIN:00N017432

MSDS Number: BLCJL

Responsible Party

US SILICA COMPANY

BERKELEY SPRINGS , WV 25411

US

Emergency Phone: 304-258-2500

Info Phone: 304-258-2500

Cage: HO909

Contractor

US SILICA COMPANY

187

BERKELEY SPRINGS, WV 25411

US

304-258-2500

Cage: HO909

Ingredients

REQUIREMENTS RELATING TO OCCUPATIONAL EXPOSURE TO

RTECS: 9999999ZZ

SILICA, CRYSTALLINE - QUARTZ

CAS: 14808-60-7

RTECS: VV7330000

OSHA PELSEE TABLE Z3

ACGIH TLV: 0.1 MG/M3 RDUST;9293

RESP W/FULL FACEPIECE.ANY SUPPLIED-AIR RESP

RTECS: 9999999ZZ

500XPEL/LESS-A POWERED AIR-PURIFYING RESP W/HEPA

RTECS: 9999999ZZ

OTHER POSITIVE PRESS/CONTINUOUS-FLOW MODE.

RTECS: 9999999ZZ

FACEPIECE OPER IN PRESS-DMD/OTHER POSITIVE MODE. A

RTECS: 9999999ZZ

RESP W/A FULL FACEPIECE OPER IN PRESS-DMD/OTHER

RTECS: 9999999ZZ

OPER IN PRESS-DMD/OTHER POSITIVE PRESS MODE. ABRASIVE

RTECS: 9999999ZZ

FACEPIECE/HOOD/HELMET, OPER IN POSITIVE-PRESS MODE.

RTECS: 9999999ZZ

WASH/VACUUM CLTHG WHICH HAS BECOME DUSTY. WE REC

RTECS: 9999999ZZ

RESP MUST BE USED. WARN YOUR EMPLOYEES (AND YOUR

RTECS: 9999999ZZ

MEANS OF HAZ & OSHA PREC TO BE USED. PROVIDING

RTECS: 9999999ZZ

AMERICAN SOCIETY FOR TESTING & MATLS (ASTM)

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:ACUTE/CHRONIC:PRLNGD EXPOS TO RESP

CRYSTALLINE QUARTZ MAY CAUSE DELAYED(CHRONIC) LUNG

INJURY(SILICOSIS). ACUTE/RAPIDLY DEVELOPING SILICOSIS MAY OCCUR IN

SHORT PERIOD OF TIME IN HEAVY EXPOS IN CERTAIN OCCUP SUCH AS

SANDBLASTERS. SILICOSIS IS A FORM OF DISABLING PULM FIBROSIS WHICH

CAN BE PROGRESSIVE & MAY LEAD TO DEATH.

Explanation of Carcinogenicity:CRYSTALLINE SILICA: GROUP 2A (IARC)

Effects of Overexposure:UNDUE BREATHLESSNESS, WHEEZING, COUGH, AND
SPUTUM PRODUCTION.

Medical Cond Aggravated by Exposure:PULM FUNC MAY BE REDUCED BY INHAL

OF RESP CRYSTALLINE SILICA. ALSO LUNG SCARRING PRODUCED BY SUCH

INHAL MAY LEAD TO PROG MASSIVE FIBROSIS OF LUNG WHICH MAY AGGRAV

OTHER PULM CNDTNS & (SEE SUPP DATA)

First Aid

First Aid:FOR SAND IN EYES: WASH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MD. FOR GROSS INHAL: REMOVE PERSON IMMEDIATELY TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION AS NEEDED, SEEK MD AS NEEDED. INGEST: CALL MD IMMEDIATELY .

Fire Fighting

Flash Point:NON-FLAMMABLE
Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:NONE REQUIRED; SAND MAY BE USED AS EXTINGUISHING MEDIA.
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .
Unusual Fire/Explosion Hazard:CRYSTALLINE SILICA IS NEITHER A FIRE NOR AN EXPLOSION HAZARD. CRYSTALLINE SILICA MAY BE USED TO PUT OUT CLASS A AND B FIRES.

Accidental Release

Spill Release Procedures:USE DUSTLESS METHODS (VACUUM) AND PLACE INTO CLOSABLE CONTAINERS FOR DISPOSAL, OR FLUSH WITH WATER. DO NOT DRY SWEEP. WEAR PROTECTIVE EQUIPMENT.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:AVOID BREAKAGE OF BAGGED MATERIAL OR SPILLS OF BULK MATERIAL.
Other Precautions:USE DUSTLESS SYS FOR HNDLG, STOR & CLEAN UP SO THAT AIRBORNE DUST DOES NOT EXCEED PEL. USE ADEQ VENT & DUST COLLECTION. PRACTICE GOOD HOUSEKEEPING. DO NOT PERMIT DUST TO COLLECT ON WALLS, FLOORS, SILL S, LEDGES, MACHINERY/EQUIP. (SUPP DATA)

Exposure Controls

Respiratory Protection:THE FOLLOWING NIOSH/MSHA APPRVD RESP ARE REC: 5XPEL/LESS-ANY DUST RESP. 10XPEL/LESS-ANY DUST RESP, EXCEPT SINGLE-USE/QUARTER-MASK RESP. ANY FUME RESP/HEPA FILTER RESP. ANY SUPPLIED-AIR RESP. ANY SCBA. 50XPEL/LESS-A HEPA FILTER (SEE ING 2)
Ventilation:USE SUFF LOC EXHST TO REDUCE LEVEL OF RESPIRABLE CRYSTALLINE SILICA TO PEL. SEE ACGIH "INDUSTRIAL VENTILATION".
Protective Gloves:IMPERVIOUS GLOVES .
Eye Protection:CHEMICAL WORKERS GOGGLES .
Other Protective Equipment:PROTECTIVE CLOTHING AND EQUIPMENT ARE OPTIONAL.
Work Hygienic Practices:AVOID CREATING AND BREATHING DUST. SEE OTHER PRECAUTIONS.
Supplemental Safety and Health
MED CNDTNS:DISEASES & WHICH INCR SUSCEPTIBILITY TO PULM TUBERCULOSIS. PROG MASSIVE FIBROSIS MAY BE ACCOMPANIED BY RIGHT HEART ENLARGEMENT, HEART FAILURE & PULM FAILURE. SMOKING AGGRAVATES EFTS OF EXPO S. OTHER PREC: MAINTAIN, CLEAN & FIT TEST RESP I/A/W OSHA REGS. MAINTAIN & TEST VENT & DUST COLLECTION EQUIP.(SEE ING 9)

Chemical Properties

HCC:N1
Boiling Pt:B.P. Text:4046F,2230C
Melt/Freeze Pt:M.P/F.P Text:3050F,1677C
Vapor Pres:NONE
Vapor Density:NONE
Spec Gravity:2.65
Evaporation Rate & Reference:NONE
Solubility in Water:INSOLUBLE
Appearance and Odor:WHITE OR TAN SAND, GRANULAR, CRUSHED OR GROUND - NO ODOR OR TASTE.

Stability

Stability Indicator/Materials to Avoid:YES
CONT W/POWERFUL OXIDIZING AGENTS SUCH AS F, CHLORINE TRIFLUORIDE, MANGANESE TRIOXIDE, OXYGEN DIFLUORIDE MAY CAUSE FIRES.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:SILICA WILL DISSOLVE IN HYDROFLUORIC ACID AND PRODUCE A CORROSIVE GAS - SILICON TETRAFLUORIDE.

Disposal

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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.