SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **UK-3000 Part C**
SYNONYMS:
PRODUCT CODES:

MANUFACTURER: Absolute Concrete Products
DIVISION:
ADDRESS: 144 S. Main St. Union, OR 97883

EMERGENCY PHONE: 1-800-535-5053 (24 Hour)
INFOTRAC PHONE: +1-352-323-3500 or 1-800-535-5053
OTHER CALLS: (541) 562-2000

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES:
Causes serious eye irritation.

SKIN:
Causes skin irritation.

INGESTION:

INHALATION:
May cause damage to organs (Lung) through prolonged or repeated exposure.

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CARCINOGENICITY

May cause cancer. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
14808-60-7	60-100		
1305-62-0	1-3		

	ppm	mg/m3
OSHA PEL-TWA:		
OSHA PEL STEL :		
OSHA PEL CEILING:		
ACGIH TLV-TWA:		
ACGIH TLV STEL:		
ACGIH TLV CEILING:		

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES:
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

SKIN:
Wash off with soap and water. If skin irritation occurs, get medical advice/attention.

INGESTION:
Rinse mouth. Get medical attention if symptoms occur.

INHALATION:
Move to fresh air. Call a physician if symptoms develop or persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:
Treat symptomatically. Symptoms may be delayed.

SECTION 4 NOTES:
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) LOWER:

FLASH POINT:
F:
C:
METHOD USED:

AUTOIGNITION TEMPERATURE:
F:
C:

NFPA HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY:
OTHER:

HMIS HAZARD CLASSIFICATION
HEALTH: FLAMMABILITY: REACTIVITY:
PROTECTION:

EXTINGUISHING MEDIA:
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES:
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Use standard firefighting procedures and consider the hazards of other involved materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
During fire, gases hazardous to health may be formed.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES:
No unusual fire or explosion hazards noted.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not vacuum clean unless vacuum cleaners are equipped with HEPA filter.

SECTION 6 NOTES:
Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:
Store locked up. Store in a cool, dry place out of direct sunlight.

OTHER PRECAUTIONS:
Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	Form
Calcium hydroxide (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction.
Crystalline silica (Quartz)(CAS 14808-60-7)	PEL	15 mg/m3	Total dust.
		0.05 mg/m3	Respirable dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Component	Type	Value	Form
Crystalline silica (Quartz)(CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Crystalline silica (Quartz)(CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	Form
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
Crystalline silica (Quartz)(CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable dust.

ENGINEERING CONTROLS:

VENTILATION:
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

RESPIRATORY PROTECTION:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure.

EYE PROTECTION:
Wear safety glasses with side shields (or goggles).

SKIN PROTECTION:
Wear appropriate chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Wear protective gloves/protective clothing/eye protection/face protection.
Wear appropriate thermal protective clothing, when necessary.

WORK HYGIENIC PRACTICES:
Wash thoroughly after handling. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 8 NOTES:
If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
Granular solid.
ODOR:
Not available.
PHYSICAL STATE:
Solid.
pH AS SUPPLIED: Not available.

SOLUBILITY IN WATER:
Insoluble in water.

Relative Density:
2.4 Estimated

SECTION 10: STABILITY AND REACTIVITY

STABLE	UNSTABLE
X	

STABILITY:
Material is stable under normal conditions.

CONDITIONS TO AVOID (STABILITY):
Contact with incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID):
Powerful oxidizers. Chlorine.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:
No hazardous decomposition products are known.

HAZARDOUS POLYMERIZATION:

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:
The product is stable and non-reactive under normal conditions of use, storage and transport.
No dangerous reaction known under conditions of normal use.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
Acute toxicity - May cause discomfort if swallowed.

Component	Species	Test Results
Acute Oral LD50	**Rat**	**7340 mg/kg**

IARC Monographs. Overall Evaluation of Carcinogenicity
Crystalline silica (Quartz) (CAS 14808-60-7) **1 Carcinogenic to humans.**

NTP Report on Carcinogens
Crystalline silica (Quartz) (CAS 14808-60-7) **Known To Be Human Carcinogen.**

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Crystalline silica (Quartz) (CAS 14808-60-7) **Cancer**

Reproductive toxicity
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure
No data available.

Specific target organ toxicity -repeated exposure
May cause damage to organs (Lung) through prolonged or repeated exposure.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.
Chronic effects Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.
Further information
No other specific acute or chronic health impact noted.

SECTION 11 NOTES:
Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component	Species	Test Results
Calcium hydroxide (CAS 1305-62-0) Acute Aquatic Fish LC50	Zambezi barbel (Clarias gariepinus)	33.9 mg/l, 96 hours

SECTION 12 NOTES:
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDOUS WASTE CODE
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 13 NOTES:
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA (TOXIC SUBSTANCE CONTROL ACT):
Not regulated.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):
Not listed.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
Hazard Categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

311/312 HAZARD CATEGORIES:
Hazardous Checmical

313 REPORTABLE INGREDIENTS:
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica (Quartz) (CAS 14808-60-7)	**Cancer**
	lung effects
	immune system effects
	kidney effects

STATE REGULATIONS:
WARNING: This product contains chemicals known to the State of California to cause cancer.
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Crystalline silica (Quartz) (CAS 14808-60-7)

US. Massachusetts RTK - Substance List
Calcium hydroxide (CAS 1305-62-0)
Crystalline silica (Quartz) (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act
Calcium hydroxide (CAS 1305-62-0)
Crystalline silica (Quartz) (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law
Calcium hydroxide (CAS 1305-62-0)
Crystalline silica (Quartz) (CAS 14808-60-7)

US. Rhode Island RTK
Calcium hydroxide (CAS 1305-62-0)
Crystalline silica (Quartz) (CAS 14808-60-7)

INTERNATIONAL REGULATIONS:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

***A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).**
***A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).**

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.