1. CHEMICAL PRODUCT IDENTIFICATION		
Product Name	"ICE" (cement retardant) Admixture	
Chemical Family	Various non-toxic natural and powders of calcium, magnesium, and other metal oxides and/or hydrates, with a cellulosic added for stability	
Synonyms	Alkaline Earth Materials	
Formula	Complex Mixture	

2. COMPOSITION / INFORMATION ON INGREDIENTS			
INGREDIENT NAME / CAS NUMBER	Calcium Carbonate	471-34-1	Proprietary
	Calcium Alumina Silicate	Various	Proprietary
	Amorphous Silica (as fume)	7631-86-9	Proprietary
	Quartz (Respirable)	14808-60-7	Trace Amounts
	Cellulosic Derivative	9004-57-3	Less Than 2%
	Clay Powders	Various	Proprietary
	Metal Oxide Powder	Various	Proprietary
EXPOSURE LIMITS	OSHA has established an 8 h	our PEL of 0.1	mg/m ³ (TWA-TLV) for the
	respirable fraction of crystalli	ne silica-conta	ining dust.
CONCENTRATION (%)			
HAZARDOUS INGREDIENTS	Respirable silicon dioxide or	quartz dust, or	nly trace amounts.
EXPOSURE OVERVIEW	May contain small amounts ((under 1%) of c	rystalline silica dust.
	May cause irritation to the ey	ves, skin, and r	espiratory system.
	3. HAZARDOUS IDENTIFICA	TION	
POTENTIAL HEALTH EFFECTS:	This product contains may co EYE CONTACT: Direct conta mechanical abrasion. SKIN CONTACT: Direct conta abrasion. SKIN ABSORPTION: Not ex INGESTION: Expected to be amounts may cause gastroin INHALATION: Dusts may irri mechanical abrasion. Cough occur following exposures in Use of natural sand and grav cause additional acute toxic very high levels of respirable sand, cristobalite, tridymite) for caused acute silicosis. Acute lung disease that is typically to): shortness of breath, cough	ntain small am act with dust m tact may cause pected to be a practically nor itestinal irritatic tate the nose, ing, sneezing, excess of app vel for construc effects. Howev crystalline silic for periods as s e silicosis is a ra fatal. Symptom gh, fever, weigl	ounts of crystalline silica. ay cause irritation by irritation by mechanical significant exposure route. n-toxic. Ingestion of large in and blockage. throat, and respiratory tract by and shortness of breath may ropriate exposure limits. tion purposes is not believed to er, repeated overexposures to ca-containing dust (respirable short as six months have apidly progressive, incurable is include (but are not limited int loss, and chest pain.
ROUTE(S) OF ENTRY:	Eye Contact, Skin Contact, S	Skin Absorption	, Ingestion, Inhalation

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HUMAN EFFECTS AND SYMPTOMS	There are generally no signs or symptoms of exposure to crystalline silica-
OF OVEREXPOSURE:	containing dust. Often, chronic silicosis has no symptoms. The symptoms
	sputum production The symptoms of acute silicosis are the same
	additionally, weight loss and fever are associated with acute silicosis. The
	symptoms of scleroderma include thickening and stiffness of the skin,
	particularly in the fingers, shortness of breath, difficulty swallowing and joint
	and perbrotoxicity
CARCINOGENICITY:	The International Agency For Research On Cancer (IARC), a unit of The
	World Health Organization, has concluded there is sufficient evidence for the
	carcinogenicity of inhaled crystalline silica-containing dust in humans and
	has therefore classified crystalline silica-containing dust in Group 1,
	carcinogenic to numans. The IARC working group noted, nowever, that
MEDICAL CONDITIONS	carcinogenicity in numaris was not detected in an circumstances studied.
AGGRAVATED BY EXPOSURE:	Persons with impaired pulmonary function may be more susceptible to the
	effects of inhaling any type of dusty material.
	4. FIRST AID MEASURES
FIRST AID FOR EYES	EYES: Immediately flush eye(s) with plenty of clean water for at least 15
	minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to
	material from the eve(s). Contact a physician if irritation persists or later
	develops.
	SKIN: Wash with soap and water. Contact a physician if irritation persists
FIRST AID FOR SKIN	or later develops.
	INGESTION: If person is conscious, give large quantity of water and
FIRST AID FOR INGESTION	induce vomiting: however, never attempt to make an unconscious person
	drink or vomit. Get immediate medical attention.
	For emergencies, contact: CHEMTREC (800) 424-9300
	INHALATION: Move to fresh air. Dust in threat and pasal passages should
	clear spontaneously
	Contact a physician if irritation persists or later develops
	5. FIRE FIGHTING MEASURES
FLASH POINT	Not flammable
AUTO-IGNITION TEMPERATURE	Not applicable
	None required
	run emergency equipment with sen contained breathing apparatus and full protective clothing should be worn by firefighters. Contact with powerful
I NOOLDUNLO	processes doming should be worn by menginers. Contact with powerful

	oxidizing agents may cause fire and/or explosions (See section 10 of this MSDS)	
6. ACCIDENTAL RELEASE MEASURES		
SPILL OR LEAK PROCEDURES:	Steps to be Taken in Case Material is Released or Spilled The personal protection and controls identified in Section 8 of the MSDS should be used as appropriate. Spilled material, where dust can be generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Prevent spilled materials from inadvertently entering streams, drains, or sewers. For emergencies, contact: <u>CHEMTREC (800) 424-9300</u>	
	7. HANDLING AND STORAGE	
STORAGE TEMPERATURE SHELF LIFE SPECIAL SENSITIVITY HANDLING/STORAGE PRECAUTIONS	Ambient Unlimited None known. Avoid breathing dust. An OSHA-approved HEPA filter and mask (or comparable dust mask) should be worn when working with these materials. Avoid contact with eyes and skin. Wash thoroughly after handling. Store in a cool, dry place away from excessive heat, in original or similar waterproof containers. Ensure adequate ventilation to avoid dusting. 8 PERSONAL PROTECTION	
SKIN PROTECTION REQUIREMENTS VENTILATION REQUIREMENTS RESPIRATOR REQUIREMENTS	Rubber gloves, and long sleeve shirts and pants to minimize skin contact. Use local ventilation if dusting is a problem when working with this product. Under normal working conditions an OHSA-approved HEPA filter and mask, or comparable particulate-removing respirator is required. However, if dusty conditions are present in the work environment, then an particulate- removing respirator equipped with full-face organic dust cartridge and recommended by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA) should be used.	
9. PH	YSICAL AND CHEMICAL PROPERTIES	
PHYSICAL FORM COLOR ODOR pH BOILING POINT MELTING/FREEZING POINT VISCOSITY SOLUBULITY IN WATER SPECIFIC GRAVITY BULK DENSITY	Solid Various Odorless Not Applicable Not Applicable Not Applicable Insoluble 2.65 110 lbs/cu ft.	
VAPOR PRESSURE	Not Applicable	

10. STABILITY AND REACTIVITY		
STABILITY	This is a stable material.	
HAZARDOUS POLYMERIZATION	Will not occur.	
INCOMPATIBILITIES	Powerful oxidizing agents such as fluorine, boron trifluoride, calcium	
	chlorine, chlorine trifluoride, manganese trifluoride and oxygen difluoride	
	may cause an exothermic reaction leading to fire and/or explosion.	
INSTABILITY CONDITIONS	None known.	
DECOMPOSITION TEMPERATURE	Not Applicable.	
DECOMPOSITION PRODUCTS	Silica-containing respirable dust particles may be generated by handling.	

11. ECOLOGICAL INFORMATION	
ECOLOGY DATA FOR:	
AQUATIC TOXICITY	None available.

12. DISPOSAL CONSIDERATIONS		
WASTE DISPOSAL METHOD:	Waste must be disposed of in compliance with federal, state and local	
	environmental control regulations. If incinerated, toxic and corrosive	
	combustion gases must be properly handled.	
EMPTY CONTAINER	All containers should be disposed of in an environmentally safe manner	
PRECAUTIONS:	and in accordance with governmental regulations.	

13. TRANSPORTATION INFORMATION		
PRODUCT LABEL	Product label established	
HAZARD CLASS OR DIVISION:	Amorphous silica, quartz dust, and clay and earth material fines are not a hazardous material for purposes of transportation under the U. S. Department of Transportation Table of Hazardous Materials, 49 CFR, Sec. 172 101	
HAZARD CLASS DIVISION NUMBER:	Non-regulated	

14. REGULATORY INFORMATION		
OSHA STATUS	This product is not listed as an OSHA Carcinogen	
TSCA STATUS	PEL of TWA 20 mppcf (80 mg/m ³ /%SiO ₂) may apply for TSCA and OSHA	
	under Appendix C (mineral dust) under certain circumstances.	
CERCLA REPORTABLE QUANTITY	Amorphous silica, quartz dust, and clay and earth material fines, are not classified as a hazardous substance under the regulations of the	
	Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CER, Sec.302.	
SARA TITLE III:	SECTION 302 - Extremely Hazardous Substances: None	
	SECTION 311/312 - Hazard Categories: Non-hazardous under section 311/312	
COMPONENT NAME	SECTION 313 Toxic Chemicals: The following chemicals are present in	
CAS NUMBER	this coatings material in small amount. These chemicals are listed by	

CONCENTRATION	California EPA as materials	known to the State	e of California to cause
	cancer, birth defects, or othe	er reproductive har	m:
	Silica Dust	14808-60-7	Less Than (0.5%)
	Cellulosic Derivative	9004-57-3	Less Than 2%
	Calcium Carbonate	1317-65-3	Proprietary
	Amorphous Silica (as fume)	7631-86-9	Proprietary
RCRA STATUS	If discarded in its purchased waste either by listing or by or responsibility of the produced whether the material should 261.20-24)	form, this product characteristic. Ho r or deliverer of the be classified as a	would not be a hazardous wever, under RCRA, it is the product to determine hazardous waste. (40 CFR
California Proposition 65	Crystalline Silica-containing	dust is classified a	as a substance known to the
	state of California to be a cal	rcinogen and has	an 8 hour PEL of 0.1 mg/m³
	(TWA-TLV) for the respirable	e crystalline-silica	dust fraction.

15. OTHER INFORMATION		
HMIS RATINGS:	0=minimal 1=slight 2=moderate 3=serious 4=severe	
HEALTH	2	
FLAMMABILITY	0	
REACTIVITY	0	
REASON FOR ISSUE	First Release	
PREPARED BY	Jonathan Dongell (R & D) Sr. Chemist	
APPROVED BY	Jonathan Dongell (R & D) Sr. Chemist	
SUPERSEDES DATE	N/A	
MSDS NUMBER	2208	

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