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Diamond Tech International MATERIAL SAFETY DATA SHEET**61452-3009**

5600 Airport Blvd, Suite C, Tampa, FL 33634 (813) 806-2923 Fax (813) 806-1988

Section I PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** KILN WASH**CHEMICAL NAME:** KAOLINITE (CAS No. 1332-58-7)
SILICA (CAS No. 14808-60-7)

PRODUCER:	TELEPHONE NUMBERS:
Diamond Tech International	Emergency and Information
5600 Airport Blvd	(813) 806-2923 8am-5pm EST M-F
Suite C	(800) 937-9593
Tampa FL 33634	(813) 806-1988

SECTION II HAZARDOUS INGREDIENTS

Free Silica (Crystalline Quartz) Formula: SiO₂ Typically 50% CAS No. 14808-60-7
Kaolin or kaolinite is a naturally occurring hydrous aluminum silicate mineral.
Formula: H₄Al₂Si₂O₉; SiO₂

SECTION III PHYSICAL DATA

BOILING POINT: Not Applicable **VAPOR PRESSURE:** N/A **SPECIFIC GRAVITY:** 2.56
MELTING POINT: 1740 - 1785 C **SOLUBILITY IN WATER:** Negligible **PERCENT VOLATILE:** N/A
ODOR AND APPEARANCE: Earthy smell when wet. White to light gray lumps; buff-colored powder

SECTION IV FIRE AND EXPLOSION DATA: Non-flammable and non-explosive**SECTION V HEALTH HAZARD INFORMATION**

OSHA PEL: CRYSTALLINE QUARTZ (Respirable)	5.0 mg/m ³ (TWA-TLV)
AGGIH TLV: CRYSTALLINE QUARTZ (Respirable)	0.05 mg/m ³ (TWA-TLV)
NIOSH TWA: CRYSTALLINE QUARTZ (Respirable)	0.05 mg/m ³ (TWA-TLV)

HAZARD BY ROUTES OF EXPOSURE:

INHALATION: WARNING: These products contain crystalline silica. Repeated, prolonged inhalation of dust may cause delayed lung injury which may result in silicosis or pneumoconiosis. The International Agency For Research On Cancer in its publication, "IARC Monographs On The Evaluation Of The Carcinogenic Risk To Humans - Silica, Some Silicates, Coal Dust and Para-aramid Fibriils" - Volume 68, 1997, has concluded that there is sufficient evidence for the carcinogenicity of crystalline silica in humans, and has, therefore, classified crystalline silica in Group I, carcinogenic to humans. The National Toxicology Program's ("NTP's") Sixth Annual Report on Carcinogens, 1991, lists crystalline silica (respirable) as a substance which may reasonably be anticipated to be a carcinogen. In humans, a number of studies have found an association between lung cancer and exposure to dust containing respirable crystalline silica. In many of these studies, though not all, lung cancer risks were elevated and could not be explained by confounding factors such as cigarette smoking or arsenic or radon inhalation. While the IARC working group concluded there was sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or crystobalite, it noted that carcinogenicity in humans was not detected in all circumstances studied. **NOTE:** The State of California requires the following statement: "Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer."

INGESTION: Nausea may result from accidental ingestion. May cause cancer.

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HOTLINE FUSERS GLUE
Cat. No. 4875

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-11387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME AKZO ZOUT CHEMIE, Arnhem Holland	EMERGENCY TELEPHONE NO. (303)832-6226
ADDRESS (Number, Street, City, State, and ZIP Code) c/o Drexel and Co., INC. 1670 Broadway #3335 Denver, CO, 80202	
CHEMICAL NAME AND SYNONYMS sodium carboxymethyl cellulose	TRADE NAME AND SYNONYMS AKU-CMC LZ 845/LZ 740
CHEMICAL FAMILY cellulose	FORMULA C=39%, H=5.1%, O=46.9%, Na=9.0%

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
No hazardous ingredients present					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	-- --	SPECIFIC GRAVITY (H ₂ O=1)	1.57
VAPOR PRESSURE (mm Hg.)	--	PERCENT, VOLATILE BY VOLUME (%)	3.1
VAPOR DENSITY (AIR=1)	--	EVAPORATION RATE (--- -1)	--
SOLUBILITY IN WATER	completely		
APPEARANCE AND ODOR	White to yellow powder No odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	350° (open cup)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	water			
SPECIAL FIRE FIGHTING PROCEDURES	None			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

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SECTION V --HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	
EFFECTS OF OVEREXPOSURE	The toxicity and hazards under normal conditions of application appeared to have very low effects in animal experiments.
EMERGENCY AND FIRST AID PROCEDURES	Exposure to dust in manufacturing operations over 30 years did not show any adverse effects.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Spilled product on wet floors can cause slipperiness shovel up and flush with water.	
WASTE DISPOSAL METHOD	
Incinerate or bury in a landfill	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES	EYE PROTECTION	
OTHER PROTECTIVE EQUIPMENT none		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
During processing the dust of the dry product can be found	
OTHER PRECAUTIONS	inconvenient. Although not dangerous, the use of a simple mask is recommended.

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■ Material Safety Data Sheet ■

Manufacture's Information:

Manufacture's Name: LINTEC Corporation
 Address: 23-23 Hon-cho, Itabashi-ku, Tokyo Pref. 173-00001, JAPAN
 Division in charge: Quality Assurance & Environmental Protection Office
 Person in charge(Drafted): K. Koshihara
 TEL: 03-5248-7727 FAX: 03-5248-7726
 Emergency contact: Mishima Factory Technical Office
 TEL: 0896-23-4400

Control No.: T O 2 - 1 2 9 (E)

Issued: November, 7, 2002

Product name(chemical name, trade name): Paper

Ceraform M

70044-01

■ Material Properties

Chemical name: Paper (Article)

Ingredients: Cellulose(wood pulp), Aluminium hydroxide, Polyvinyl alcohol,
 Glass fiber, Polyvinylidene chloride, Polyamide-epichlorohydrin resin,
 Polyacrylamide, etc

Chemical formula and structural formula:

CAS No.

Classification or No. designated by the United Nations: Not applicable.

■ Classification of Hazard Level and Toxicity

Name of classification: Does not apply to the classification standard.

Hazard Level: None

Toxicity: None

Environmental Impact: None

■ First Aid Treatment

This product is neither hazardous nor toxic. However, the following describes possible accidents due to incorrect handling of the product and first aid treatment for such accidents.

→Contact with eyes

*This is not a hazardous substance. However, if the product has entered your eyes, wash eyes thoroughly with pure water for at least 15 minutes, and consult a doctor.

→Contact with skin

*Wash your skin with cold or lukewarm water. If a rash develops or if there is any pain, consult a doctor.

→Inhaling

*This product is solid, thus there is no chance of inhalation.

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→Swallowing

*This is not a hazardous substance. However, wash mouth thoroughly with pure water. If possible, put your finger into your throat to induce vomiting, and consult a doctor.

■ In Case of Fire

Extinguishing method: When exposed to flame, Ceraform utilizes its own crystallized water emitting capabilities to extinguish the flame.

Extinguisher: Water, Foam, CO₂, Sand

■ In Case of Leakage

Immediately collect scattered papers and scraps to prevent such a secondary hazard that causes people to slip and fall.

■ Handling and Storage Precautions

Handling: Do not give any impact.

Storage: Avoid high temperature, high humidity place, and low temperature.

Ideal Store condition is 10~30°C and humidity is 70%RH or less. Also do not allow moisture and chemicals to contact the product.

■ Prevention of Exposure

Control density: Not applicable

Allowable density: Not applicable

Measures for equipment: Not required

Protective gear mask: Not required

Goggles: Not required

Gloves: Not required

Gown: Not required

■ Physical & Chemical Properties

Appearance: Sheet(solid)

Boiling point: Not applicable. Vapor pressure: None. Volatility: None.

Melting point: Not applicable. Specific gravity: 0.9~1.0 g/cm³

Initial boiling point: Not applicable.

Solubility in water: Not soluble

■ Hazard Information

Flash point: ab.230°C(wood pulp)

Ignition point: ab.450°C(wood pulp).

Explosion limit: Not applicable.

Flammability: nonflammable

Ignition(spontaneous ignition due to reaction with water): None.

Oxidation: Currently not acknowledged.

Self reaction and self explosion: None.

Dust explosion: Currently not acknowledged.

Stability and reaction: Stability in the normal condition.

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■ Toxicity Data (including examples of symptoms in humans and epidemiological information)

Skin corrosiveness: Currently not acknowledged.

Stimulation(skin, eyes): Glass fiber irritates the skin.

Sensitization: Currently not acknowledged.

Acute toxicity(including lethal dose of 50%,etc.): Currently not acknowledged.

Subacute toxicity: Currently not acknowledged.

Chronic toxicity: Currently not acknowledged.

Carcinogenicity: Currently not acknowledged.

Mutagenicity(microbe, chromosome): Currently not acknowledged.

Toxicity for generative function: Currently not acknowledged.

Malformation: Currently not acknowledged.

Others(including toxic gas generation due to reaction with water, etc.): Currently not acknowledged.

■ Environmental Information

Decomposition: Currently not acknowledged.

Accumulation: Currently not acknowledged.

Toxic deposits in fish: Currently not acknowledged.

Others: Currently not acknowledged.

■ Disposal Precaution

When reclaiming the product, consign a company authorized for handling of industrial waste according to the "Laws on Processing of Waste and Cleaning", or local public organization if it is to under take handling of industrial waste. When burning the product, use an incinerator and treat the product in compliance with applicable laws such as the Air Pollution Control Law.

■ Transport Precaution

Product is loaded on transporting media to prevent the product for falling, dropping, being damaged or becoming dusty during transport.

■ Application Low

In the case the product weight 1000kgs or more, it is regarded as a combustible designated by the Fire Services Act.

Please refer to(any other)national measures that may be relevant.

■ Others(contact concerning the descriptions, reference material, etc.)

This Data Sheet has been prepared based on currently available information and is subject to revision whenever new information and/or knowledge is acquired.

What is described under "HANDLING" is applicable only to ordinary handling.

If special handling is to be involved, take safety measures that are suitable for the relevant application and usage before use.

The above information is delivered to furnish safety data on the product and not for a warranty purpose.