

MATERIAL SAFETY DATA SHEET
CERASET PSZ 20

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Substance key: 000000304022
Version : 1 - 3 / USARevision Date: 07/08/2009
Date of printing :07/08/2009**Section 01 - Product Information****Identification of the company:**Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704 331 7000**Information of the substance/preparation:**KION Specialty Polymers
Product Safety: +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: CERASET PSZ 20
Material number: 226645
CAS number: 503590-70-3
Primary product use: Coating
Chemical family: Vinylpolysilazane**Section 02 - Composition information on hazardous ingredients****Hazardous ingredients:**

Component	CAS-no. (Trade secret no.)	Concentration
Cyclosilazanes, methyl hydrogen, methyl vinyl	503590-70-3	> 99 %

Section 03 - Hazards identification**Emergency overview:**Yellow liquid.
Ammonia Odor.
Contact with water liberates ammonia.
Skin corrosive.
Eye corrosive.**Expected Route of entry:****Inhalation:** yes
Skin contact: yes
Eye contact: yes
Ingestion: yes
Skin absorption: no**Health effects of exposure:**Cyclosilazanes, methyl hydrogen, methyl vinyl (503590-70-3)
Corrosive liquid, causes severe eye irritation or eye burns and causes skin burns with redness, pain and swelling. May cause irritation of respiratory system if inhaled.

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Known effects on other illnesses: None known.
Listed carcinogen: IARC: NO NTP: NO OSHA: NO
Other: No

HMIS:

Health: 3

Flammability: 2

Reactivity: 1

Personal protection: X

Section 04 - First aid measures**After Inhalation:**

Remove victim to fresh air.
If breathing has stopped, administer CPR and seek medical attention immediately.

After contact with skin:

Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

After contact with eyes:

Flush thoroughly with water for 15 minutes. Get immediate medical help.

After ingestion:

If ingested, seek medical assistance immediately.
Do not induce vomiting due to aspiration hazard. If vomiting occurs, lower head below knees to avoid aspiration. Seek immediate medical attention.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures**Flashpoint:** 146 °F**Lower explosion limit:** not tested.**Upper explosion limit:** not tested.**Self ignition:** not tested.**Ignition temperature:** not tested.**Hazardous combustion products:**

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
Nitrous gases (NOx)
Silicon dioxide

Extinguishing media: foam
dry powder
carbon dioxide

Special fire fighting procedure:

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Use water spray to cool drums in fire area.

Unusual fire and explosion hazards: Vapor may travel considerable distance to source of ignition and flash back.

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Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.

Section 07 - Handling and storage**Advice on safe handling:**

Keep away from heat, sparks, and flame.

Take precautions to avoid static discharge. Transfer and store in properly bonded and grounded containers.

Store in a cool dry place. Keep tightly closed. Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Ammonia gas can build during storage.

Store in a cool dry place. Recommended storage temperature is < 77 F. Avoid contact with moisture.

Close container immediately after use. Do not return any unused material to the original container.

Open container carefully because pressure may build upon prolonged storage. Always use proper protective equipment when opening the container.

Check and vent containers periodically to minimize pressure build upon prolonged storage.

When venting containers minimize product exposure to air as moisture can further contribute to pressure build.

Further info on storage conditions:

Store in original container.

Store under cool and dry conditions.

Section 08 - Exposure controls / personal protection

Specific exposure standards are not available for all silazanes. When specific exposure standards are not available, it is recommended that the ACGIH TLV for ammonia of 25 ppm be utilized. Ammonia is generated on the hydrolysis of these materials.

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|------------------------------------|--|
| Respiratory protection: | If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134. |
| Hand protection: | Silver Shield, 4H, Viton |
| Eye protection: | Chemical splash goggles or safety glasses with full face shield |
| Other protective equipment: | Clothing suitable to prevent skin contact. |
| Advice on system design: | Local ventilation recommended - mechanical ventilation may be used. |

IDLH:

None For This Product

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Form:	Liquid
Color:	colourless to yellowish
Odor:	slightly ammonia-like
pH:	not tested.
Solubility in water:	Reacts with water.
Density:	approx. 1 g/cm ³
Boiling point :	Not determinable
Vapor pressure:	not tested.
Partitioning coef. octanol/water:	Not applicable
Viscosity / (dynamic):	184 mPa.s (19 °C)

Section 10 - Stability and reactivity

Thermal decomposition:	not tested.
Chemical stability:	Stable.
Chemical stability:	Stable.
Hazardous Polymerization:	Will not occur. Conditions to avoid: None known.

Section 11 - Toxicological information

Product information:	
Acute oral toxicity:	LD50 > 2,000 mg/kg (rat)
Acute inhalation toxicity:	not available
Acute dermal toxicity:	not available
Skin Irritation:	Corrosive Test result of a similar preparation
Eye irritation:	Corrosive Method: test result of a related preparation.
Sensitization:	not tested.

Other relevant toxicity information:

The product has a strong caustic effect on skin, eyes and mucous membranes.

Section 12 - Ecological information

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Product Information:

Fish toxicity: not tested.
Daphnia toxicity: not tested.
Algae toxicity: not tested.

Remarks:

Apart from the information given in this Safety Data Sheet on environmental effects, there are no additional data on mobility, persistence, degradability and bioaccumulation available.
Do not allow to enter soil, waterways or waste water

Section 13 - Disposal considerations

Waste disposal information:

Properly containerize and label waste material.
Dispose of any waste residues according to prescribed federal, state and local guidelines, e.g. appropriately permitted chemical waste incinerator.

RCRA hazardous waste:

Yes -- If it becomes a waste as sold.
RCRA number: D002

Section 14 - Transport information

DOT Regulation:

Proper shipping name: Corrosive liquids, n.o.s.
Hazard class: 8
Packing group: II
UN/NA-number: UN 1760
Primary hazard class: 8
Technical Name: Polysilazane

IATA

Proper shipping name: Corrosive liquid, n.o.s.
Class: 8
Packing group: II
UN/ID number: UN 1760
Primary risk: 8.
Remarks: Shipment permitted
Hazard inducer(s): Polysilazane

IMDG

Proper shipping name: Corrosive liquid, n.o.s.
Class: 8
Packing group: II
UN no.: UN 1760
Primary risk: 8
Hazard inducer(s): Polysilazane
EmS: F-A S-B

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This product is listed on the TSCA Inventory.

SARA (section 311/312):

Reactive hazard:	yes
Pressure hazard:	no
Fire hazard:	yes
Immediate/acute:	yes
Delayed/chronic:	no

SARA 313 information:

This product does not contain any toxic chemical listed under the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986. Note: Under normal usage conditions, the active components of this product may hydrolyze to release ethylene glycol.

Clean Water Act:

This product is not a Clean Water Act priority pollutant.

FDA:

Permitted for Use per Section:	NONE
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Section 16 - Other information**Other precautions:**

Keep containers tightly closed when not in use.
Observe all necessary precautions for handling corrosive liquids.
Care should be taken to avoid the build up of electrostatic charges. Wear proper protective equipment, prevent skin contact. Avoid contact with heat, sparks, and open flames.
This material is subject to the U.S. Export Administration Regulations (EAR) and are classified under ECCN 1C007(e) on the EAR's Commerce Control List. ECCN 1C007(e) materials are controlled for national security (column 2) reasons and require a U.S. export license for exports, re-exports, or retransfers to certain countries and end-users. Entities or persons located worldwide, including non-U.S. companies or persons, are subject to these U.S. licensing requirements. Diversion of these materials to unauthorized countries or end-users is contrary to U.S. law and is subject to severe criminal and civil penalties

Label information:

WARNING!

CORROSIVE KEEP AWAY FROM WATER CAUSES BURNS TO SKIN, EYES AND MUCOUS MEMBRANES COMBUSTIBLE LIQUID

The toxicological properties of this material have not been fully evaluated. Therefore this material should be handled with appropriate caution. Keep Container closed, use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wear proper protective equipment. Avoid breathing dust.

In case of EYE CONTACT, flush with water for 15 minutes while holding eyelids open.
SKIN CONTACT: Wash thoroughly with soap and water. Seek medical attention if

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irritation occurs. For inhalation, remove to fresh air, consult a physician. Ingestion: If conscious, give the patient 1 - 2 glasses of water (8 - 16 oz.). Get medical attention. Induce vomiting only at the instructions of a doctor or nurse.

NFPA:

Health: 3

Flammability: 2

Reactivity: 1

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of AZ Electronic Materials USA Corp., its business partners or suppliers.