

MATERIAL SAFETY DATA SHEET

Retayne

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Section 01 - Product Information

Information of the substance/preparation: Textile, Leather, and Paper Chemicals

Emergency tel. number: 800-424-9300 CHEMTREC

Trade name: Retayne

Material number: 172212

Formula: Proprietary

Primary product use: Textile Auxiliary Chemical

Chemical family: Cationic Methylene Guanidine

Section 02 - Composition information on hazardous ingredients

Hazardous ingredients:

Component	CAS-no. (Trade secret no.)	Concentration
Product		100%

Section 03 - Hazards identification

Expected Route of entry:

Inhalation: no
Skin contact: yes
Eye contact: yes
Ingestion: yes
Skin absorption: no

Health effects of exposure:

Product Mixture: This product can be a mild to moderate skin irritant. May cause irritation which could cause permanent eye damage.

Known effects on other illnesses: No known effects on other illnesses for this product.

Listed carcinogen: IARC: No
NTP: No
OSHA: No
Other: No

HMIS:

Health: 2 Flammability: 1 Reactivity: 0 Personal protection: C

Section 04 - First aid measures

After inhalation: Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

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

After contact with eyes:

Immediately flush the eyes with large amounts of water, occasionally lifting the upper and lower eyelids, for at least 15 minutes. Seek medical attention immediately.

After ingestion:

If ingested, seek medical assistance immediately.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint:	> 200F
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Ignition temperature:	not determined

Hazardous combustion products:

Thermal decomposition may produce oxides of carbon and nitrogen. Evolution of formaldehyde may occur upon heating.

Extinguishing media:

water
Alcohol resistant foam
carbon dioxide
Dry Chemical

Special fire fighting procedure:

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

Unusual fire and explosion hazards: None known.

Section 06 - Accidental release measures**Steps to be taken in case of spill or leak:**

Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbants. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove contaminated soils. Place in appropriate containers.

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

Avoid getting on skin or in eyes when handling product.

Further info on storage conditions:

Keep containers closed.

Section 08 - Exposure controls / personal protection

Respiratory protection: NIOSH approved respirator - chemical cartridge respirator with appropriate cartridge, if required.

Hand protection: Butyl Rubber, PVC Or Neoprene.

Eye protection: Chemical splash goggles.

Other protective equipment Clothing suitable to prevent skin contact. Rubber apron and rubber boots are recommended.

Advice on system design Local ventilation recommended - mechanical ventilation may be used.

IDLH:

Not Determined

Section 09 - Physical and chemical properties

Form:	Liquid
Color:	colorless
Odor:	pungent
pH:	4.5 . 5.5
Solubility in water:	soluble
Melting point:	not determined
Freezing point:	not determined
Boiling point:	212F

Section 10 - Stability and reactivity

Chemical stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to avoid: None known.

Conditions to avoid: Strong oxidizing agents.

Section 11 - Toxicological information**Product information:**

Acute oral toxicity: LD50 (rat)
not determined

Skin irritation: Not tested

Eye irritation: Not tested

Section 12 - Ecological information

Remarks: No data available.

Section 13 - Disposal considerations

Waste disposal information: Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

RCRA hazardous waste:

No -- Not as sold.

Section 14 - Transport information

DOT	not restricted
IATA	not restricted
IMDG	not restricted

Section 15 - Regulatory information**TSCA Status:**

All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):

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

SARA 313 information:

This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act:

Contains no known priority pollutants at concentrations greater than 0.1 %.

Volatile organic compounds VOC:

Content VOC (weight-%): 3.7 %

Remarks: Estimated

FDA: This product is not registered with the FDA.

Section 16 - Other information**Other precautions:**

None Known

Label information:

CAUTION!

MAY CAUSE IRRITATION TO EYES AND SKIN RISK OF SERIOUS DAMAGE TO EYES

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wear proper protective equipment. Keep container closed when not in use.

Eye contact: flush with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention. Skin contact: wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. Wash contaminated clothing before reuse. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if respiratory irritation continues. Ingestion: seek medical attention immediately.

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.