

MATERIAL SAFETY DATA SHEET**G-Shield 74 Bright**

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Substance key: GSHIELD74B
Version : 1 - 9 / USARevision Date: 09/18/2008
Date of printing :10/02/2008**Section 01 - Product Information****Identification of the company:**KiON Specialty Polymers
A Clariant Business
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: G-Shield 74 Bright
Material number: 226634
Primary product use: Anti-graffiti
Chemical family: Silazane polymer in T-butyl acetate

Section 02 - Composition information on hazardous ingredients**Hazardous ingredients:**

Component	CAS-no. (Trade secret no.)	Concentration
tert-Butyl acetate	540-88-5	55 - 65 %
Proprietary Polysiloxazane polymer		> 1 %

Section 03 - Hazards identification

Emergency overview: Clear liquid.
Ammonia Odor.
Highly flammable and corrosive liquid.
Hydrolyzes readily in water to form ammonia gas.

Expected Route of entry:

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

Health effects of exposure:

tert.-Butylacetate (540-88-5)
tert.-Butylacetate is an irritant to the skin, eyes and respiratory system. Severe overexposure can cause weakness, drowsiness, and unconsciousness. Inhalation can cause CNS depression. Animal studies have shown central nervous system effects by the oral route

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(behavioral changes). This material has an Immediately Dangerous to Life and Health (IDLH) level of 1500 ppm which is based on 10% of the Lower Flammable Limit.

Proprietary Polysiloxazane polymer

Proprietary Polysiloxazane polymer: Oral LD50, rat: 200 - 2,000 mg/kg. Skin irritation, rabbit: severe erythema with signs of necrosis after 1-hour exposure.

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: 3* Flammability: 3 Reactivity: 1 Personal protection: H

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 eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs.

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: 45 °F

Hazardous combustion products:

Thermal decomposition will produce toxic fumes.

In the event of fire the following can be released:

Ammonia (NH₃)

Thermal decomposition may produce oxides of carbon. Other decomposition products are unknown.

Extinguishing media: foam
dry powder
carbon dioxide

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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.

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

Contain spill. Prevent sources of ignition. Wear appropriate respiratory protection and proper protective equipment. Ventilate if in enclosed area. Recover as liquid using hand or explosion proof pump or use suitable absorbant to collect. Clean up by flushing with water if appropriate or removal of contaminated soils.

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.

Further info on storage conditions:

Store in original container.

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.

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: Viton.
PVC/Nitrile Rubber gloves

Eye protection: Safety goggles or full face shield to protect against splashes.

Other protective equipment: Clothing suitable to prevent skin contact.
Safety Shower and Eye Wash.

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

IDLH:

Not Determined

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Form:	Liquid
Color:	colourless, clear
Odor:	naphthaline-like
Solubility in water:	insoluble
Density:	0.909 - 0.913 g/cm ³ (25 °C)
Boiling point :	> 200 °F Method: other

Section 10 - Stability and reactivity

Chemical stability:	Stable.
Hazardous Polymerization:	Will not occur. Conditions to avoid: None known.
Conditions to avoid:	Strong oxidizers, strong acids. Isocyanates Certain protic solvents Can hydrolyze readily in water to form ammonia gas.

Section 11 - Toxicological information

Product information:	
Acute oral toxicity:	LD50 Not tested (rat)
Skin irritation:	Corrosive Method: test result of a related preparation.
Eye irritation:	Not tested
Component information:	
tert.-Butylacetate (540-88-5)	
Acute oral toxicity:	LD50 4,100 mg/kg (rat)
Acute inhalation toxicity:	LC50 >2230 mg/m ³ /4Hr (rat)
Acute dermal toxicity:	LD50 > 2,000 mg/kg (rabbit)

Section 12 - Ecological information**Remarks:**
No data available.**Section 13 - Disposal considerations**

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Consult local, state, and federal regulations.
Toxic to aquatic organisms.
Do not mix this product with aqueous or other protic wastes streams.
Disposal of waste product may be subject to federal, state, and local regulations.
Refer to part 261 of 40 CFR for the applicability of federal regulations. Disposal of this material must be in a manner compliant with all federal, state and local regulations.

RCRA hazardous waste:

Yes -- If it becomes a waste as sold.
RCRA number: D001, D002

Section 14 - Transport information**DOT Regulation:**

Proper shipping name:	Flammable liquids, corrosive, n.o.s.
Hazard class:	3
Packing group:	II
UN/NA-number:	UN 2924
Primary hazard class:	3
Subsidiary hazard class:	8
Technical Name:	Polysilazane Butyl Acetate
Emergency Response Guide:	132
Reportable Quantity:	3,787.000 kg Butyl Acetate 0.000 kg

IATA

Proper shipping name:	Flammable liquid, corrosive, n.o.s.
Class:	3
Packing group:	II
UN/ID number:	UN 2924
Primary risk:	3
Subsidiary risk:	8
Remarks:	Shipment permitted
Hazard inducer(s):	Polysilazane Butyl Acetate

IMDG

Proper shipping name:	Flammable liquid, corrosive, n.o.s.
Class:	3
Packing group:	II
UN no.:	UN 2924
Primary risk:	3
Subsidiary risk:	8
Hazard inducer(s):	Polysilazane Butyl Acetate
EmS:	F-E S-C

Section 15 - Regulatory information

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

SARA (section 311/312):Reactive hazard: no
Pressure hazard: no
Fire hazard: yes
Immediate/acute: yes
Delayed/chronic: yes**SARA 302 information:**

Component	CAS-no. (Trade secret no.)	Concentration
tert-Butyl acetate	540-88-5	<= 60 %

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:

Remarks: Negligible

FDA:

Permitted for Use per Section: NONE

This product is not registered with the FDA.

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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:

Skin contact: wash thoroughly with soap and water. Seek medical attention if irritation continues. Eye contact: immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs. 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.

WARNING!

CAUSES BURNS TO SKIN MAY BE HARMFUL IF INHALED OR SWALLOWED MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS MAY CAUSE LIVER AND KIDNEY DAMAGE FLAMMABLE! This substance may be toxic to fish or aquatic organisms.

Avoid breathing mist or vapor. Keep container closed, when not in use. Avoid contact with skin and eyes. Do not release to water.

NFPA:

Health: 3

Flammability: 3

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.