

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: GemSeal ®Fed Spec Sealer and Fed Spec HS Sealer
Product Code: 60310022 & 60310025 & 60310026 & 60310079 & 60310089 & 60310105

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Sealer.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: GemSeal Pavement Products
3700 Arco Corporate Drive, Suite 425
Charlotte, NC
28273

Telephone Number: 866-264-8273 Tech Service 8:00 to 5:00 Eastern, Mon.-Fri.

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREC 800-424-9300
INTERNATIONAL + 01-703-527-3887

Date of Preparation: February 1, 2016 **Version #:** 1.0

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL

Hazard class

Skin sensitization 1
Germ cell mutagenicity 1B
Carcinogenicity 1A
Reproductive toxicity 1B
Specific target organ toxicity - Repeated exposure 1

2.2 LABEL ELEMENTS

Hazard Pictogram:



Signal Word: Danger

Hazard Statement: May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not eat, drink or smoke when using this product.

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Response: If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

63.0 % of the mixture consists of ingredient(s) of unknown acute toxicity

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	UN #	H / F / R / *	CAS No	Wt. %
Pitch, coal tar, high-temp.	Not available.	Not available.	65996-93-2	15 - 40
Kaolinite	Not available.	Not available.	1318-74-7	10 - 30
Silica, crystalline, quartz	Not available.	Not available.	14808-60-7	5 - 10
Mica	Not available.	Not available.	12001-26-2	3 - 7
Aluminatesilicate	Not available.	Not available.	1327-36-2	3 - 7
Feldspar-group minerals	Not available.	Not available.	68476-25-5	1 - 5
Titanium dioxide	Not available.	1/0/0	13463-67-7	0.1 - 1
Naphthalene	UN1334 (solid) UN2304 (molten)	2/2/0	91-20-3	0.1 - 1
Benz[a]anthracene	Not available.	Not available.	56-55-3	0.1 - 1
Indeno[1,2,3-cd]pyrene	Not available.	Not available.	193-39-5	0.1 - 1
Chrysene	UN3077	Not available.	218-01-9	0.1 - 1
Benzo(b)fluoranthene	Not available.	Not available.	205-99-2	0.1 - 1
Benzo[a]pyrene	Not available.	Not available.	50-32-8	0.1 - 1
Carbazole	Not available.	Not available.	86-74-8	0.1 - 1
Dibenzo[a,h]pyrene	Not available.	Not available.	189-64-0	0.1 - 1
Benzo[j]fluoranthene	Not available.	Not available.	205-82-3	0.1 - 1
Benzo(k)fluoranthene	Not available.	Not available.	207-08-9	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

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- Skin:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.
- Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

- Note to Physicians:** Symptoms may not appear immediately.
- Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

- Flammability:** Not flammable by OSHA/WHMIS criteria.

5.2 EXTINGUISHING MEDIA

- Suitable Extinguishing Media:** Treat for surrounding material.
- Unsuitable Extinguishing Media:** None known.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

- Products of Combustion:** May include, and are not limited to: oxides of carbon.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
 - Sensitivity to Static Discharge:** Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

- Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Cleaning-Up:** Scoop up material and place in a disposal container.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- Handling:** Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. (See section 8)
- General Hygiene Advice:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Storage:** Keep out of the reach of children. Keep containers closed when not in use. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Ingredient	Occupational Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Pitch, coal tar, high-temp.	0.2 mg/m ³ (as benzene soluble aerosol)	0.2 mg/m ³ TWA (benzene soluble fraction)
Kaolinite	Not available.	Not available.
Silica, crystalline, quartz	((10 mg/m ³)/(%SiO ₂ +2) TWA (resp)) ((30 mg/m ³)/(%SiO ₂ +2) TWA (total)) ((250)/(%SiO ₂ +5) mppcf TWA (resp))	0.025 mg/m ³
Mica	20 mppcf	10 mg/m ³ (total); 3 mg/m ³ (resp)
Aluminatesilicate	Not available.	Not available.
Feldspar-group minerals	Not available.	Not available.
Titanium dioxide	15 mg/m ³ (total dust)	10 mg/m ³
Naphthalene	10 ppm	10 ppm
Benz[a]anthracene	Not available.	Not available.
Indeno[1,2,3-cd]pyrene	Not available.	Not available.
Chrysene	0.2 mg/m ³	Not available.
Benzo(b)fluoranthene	Not available.	Not available.
Benzo[a]pyrene	Not available.	Not available.
Carbazole	Not available.	Not available.
Dibenzo[a,h]pyrene	Not available.	Not available.
Benzo[j]fluoranthene	Not available.	Not available.
Benzo(k)fluoranthene	Not available.	Not available.

8.2 EXPOSURE CONTROLS

- Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

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8.3 INDIVIDUAL PROTECTIVE MEASSURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Skin Protection:

Hand Protection: Wear suitable gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: Wear suitable respiratory equipment.

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste-like compound.
Color:	Not available.
Odor:	Not available.
Odor Threshold:	Not available.
Physical State:	Liquid.
pH:	Not available.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not Flammable.
Lower Flammability/Explosive Limit:	Not available.
Upper Flammability/Explosive Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density/Specific Gravity:	Not available.
Solubility:	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

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Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

Incompatible materials.

10.5 INCOMPATIBLE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Pitch, coal tar, high-temp.	Ca 80 mg/m ³	Not available.	Not available.
Kaolinite	Not available.	Not available.	Not available.
Silica, crystalline, quartz	Ca 25 mg/m ³ (cristobalite, tridymite) 50 mg/m ³ (quartz, tripoli)	Not available.	Oral 500 mg/kg, rat
Mica	1500 mg/m ³	Not available.	Not available.
Aluminatesilicate	Not available.	Not available.	Not available.
Feldspar-group minerals	Not available.	Not available.	Not available.
Titanium dioxide	Ca 5000 mg/m ³	Not available.	Oral >10000 mg/kg, rat Dermal LD50 Rabbit >10000mg/kg

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Naphthalene	250 ppm	Inhalation >0.4 mg/L 4 h, rat	Oral 490 mg/kg, rat Dermal >2500 mg/kg, rat Dermal >20 g/kg, rabbit
Benz[a]anthracene	Not available.	Not available.	Not available.
Indeno[1,2,3-cd]pyrene	Not available.	Not available.	Not available.
Chrysene	Not available.	Not available.	Not available.
Benzo(b)fluoranthene	Not available.	Not available.	Not available.
Benzo[a]pyrene	Not available.	Not available.	Not available.
Carbazole	Not available.	Not available.	Oral >5000 mg/kg, rat
Dibenzo[a,h]pyrene	Not available.	Not available.	Not available.
Benzo[j]fluoranthene	Not available.	Not available.	Not available.
Benzo(k)fluoranthene	Not available.	Not available.	Not available.

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
> 20 mg/L 4 h, rat	> 2000 mg/kg, rat	>2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Pitch, coal tar, high-temp.	G-A1, I-1, N-1
Kaolinite	Not listed.
Silica, crystalline, quartz	G-A2, I-1, N-1, O, CP65
Mica	Not listed.
Aluminatesilicate	Not listed.
Feldspar-group minerals	Not listed.
Titanium dioxide	G-A4, I-2B, O, CP65
Naphthalene	G-A4, I-2B, N-2, CP65
Benz[a]anthracene	G-A2, I-2B, N-2, CP65
Indeno[1,2,3-cd]pyrene	I-2B, N-2, O, CP65
Chrysene	G-A3, I-2B, CP65
Benzo(b)fluoranthene	G-A2, I-2B, N-2, O, CP65
Benzo[a]pyrene	G-A2, I-1, N-2, CP65
Carbazole	I-2B, O, CP65
Dibenzo[a,h]pyrene	I-2B, N-2, O, CP66
Benzo[j]fluoranthene	I-2B, N-2, O, CP65
Benzo(k)fluoranthene	I-2B, N-2, O, CP65

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

- Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met.
- Serious Eye Damage/Irritation:** Based on available data, the classification criteria are not met.
- Respiratory Sensitization:** May cause an allergic skin reaction.
- Skin Sensitization:** Based on available data, the classification criteria are not met.
- STOT-Single Exposure:** Based on available data, the classification criteria are not met.
- Chronic Health Effects:**
 - Carcinogenicity:** May cause cancer.
 - Germ Cell Mutagenicity:** May cause genetic defects.

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Reproductive Toxicity:**Developmental:** May damage the unborn child.**Teratogenicity:** Hazardous by WHMIS criteria.**Embryotoxicity:** Hazardous by WHMIS criteria.**Fertility:** May damage fertility.**STOT-Repeated Exposure:** Causes damage to organs through prolonged or repeated exposure.**Aspiration Hazard:** Not expected to occur.**Toxicologically Synergistic Materials:** Not available.**Other Information:** Not available.

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY**Acute/Chronic Toxicity:** May cause long-term adverse effects in the aquatic environment.**12.2 PERSISTENCE AND DEGRADABILITY**

Not available.

12.3 BIOACCUMULATIVE POTENTIAL**Bioaccumulation:** Not available.**12.4 MOBILITY IN SOIL**

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS**Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.**Other disposal recommendations:** Not available.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER**DOT**

Not regulated.

TDG

Not regulated.

NOM-004-SCT2-1994

Not regulated.

14.2 UN PROPER SHIPPING NAME**DOT**

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

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14.3 TRANSPORT HAZARD CLASS (ES)

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.4 PACKING GROUP

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Pitch, coal tar, high-temp.	Not listed.	Not listed.	Not listed.	Not listed.
Kaolinite	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, quartz	Not listed.	Not listed.	Not listed.	Not listed.
Mica	Not listed.	Not listed.	Not listed.	Not listed.
Aluminatesilicate	Not listed.	Not listed.	Not listed.	Not listed.
Feldspar-group minerals	Not listed.	Not listed.	Not listed.	Not listed.
Titanium dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Naphthalene	Not listed.	Not listed.	100	313
Benz[a]anthracene	Not listed.	Not listed.	10	313+^
Indeno[1,2,3-cd]pyrene	Not listed.	Not listed.	100	313+^
Chrysene	Not listed.	Not listed.	100	313
Benzo(b)fluoranthene	Not listed.	Not listed.	1	313+^
Benzo[a]pyrene	Not listed.	Not listed.	1	313+^
Carbazole	Not listed.	Not listed.	Not listed.	Not listed.
Dibenzo[a,h]pyrene	Not listed.	Not listed.	Not listed.	313+^
Benzo[j]fluoranthene	Not listed.	Not listed.	Not listed.	313+^
Benzo(k)fluoranthene	Not listed.	Not listed.	5,000	313+^

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State Regulations

California Proposition 65:

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories:

Ingredient	Canada DSL/NDSL	USA TSCA
Pitch, coal tar, high-temp.	DSL	Yes.
Kaolinite	NDSL	Yes.
Silica, crystalline, quartz	DSL	Yes.
Mica	DSL	No.
Aluminatesilicate	DSL	Yes.
Feldspar-group minerals	NDSL	Yes.
Titanium dioxide	DSL	Yes.
Naphthalene	DSL	Yes.
Benz[a]anthracene	NDSL	Yes.
Indeno[1,2,3-cd]pyrene	NDSL	Yes.
Chrysene	DSL	Yes.
Benzo(b)fluoranthene	No.	No.
Benzo[a]pyrene	DSL	Yes.
Carbazole	DSL	Yes.
Dibenzo[a,h]pyrene	No.	No.
Benzo[j]fluoranthene	No.	No.
Benzo(k)fluoranthene	No.	No.

NFPA-National Fire Protection Association:	
Health:	2
Fire:	1
Reactivity:	0

HMIS-Hazardous Materials Identification System:	
Health:	2*
Fire:	1
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

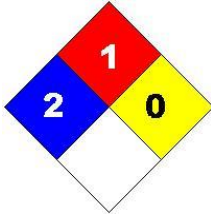
WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Chronic Toxic Effects
- Class D2A - Mutagenicity
- Class D2A - Reproductive Toxicity
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2B - Skin/Eye Irritant

WHMIS Hazard Symbols:



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Mexico Classification:

Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 **California Proposition 65**

OSHA (O) **Occupational Safety and Health Administration.**

ACGIH (G) **American Conference of Governmental Industrial Hygienists.**

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) **International Agency for Research on Cancer.**

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) **National Toxicology Program.**

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Date of Preparation: February 1, 2016

Expiry Date: February 1, 2019

Version: 1.0

Revision Date: February 1, 2016

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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End of Safety Data Sheet