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Architectural Concrete Solutions

Bomanite Florspartic 100 - B

Section 1

Product Description

Product Name: Bomanite Florspartic 100 – Part B
Recommended Use: decorative concrete
Supplier: The Bomanite Company * PO Box 2649 * Fair Oaks, CA 95628
(303) 369-1115 * www.bomanite.com
Emergency Phone: CHEMTRAC 1-800-424-9300

Section 2

Hazard identification

| | | |
|------------------------------|--|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, respiratory | Category 1 |
| | Sensitization, skin | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 3 |
| | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| OSHA defined hazards | Not classified. | |



Signal Word

Danger

Hazard statements:

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection. Use only outdoors or in a well-ventilated area.

Response: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse.

Storage: Store away from incompatible materials.

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

Hazard(s) not otherwise classified (HNOC): None known.

Section 3 Composition/ Information on Ingredients

| Component | CAS No. | OSHA PEL(TWA) | ACGIH(TLV-TWA) | Weight % |
|---|-------------|-----------------|-----------------|-----------|
| Homopolymer of Hexamethylene Diisocyanate | 28182-81-2 | Not Established | Not Established | 74-80 |
| Dipropylene glycol methyl ether acetate | 88917-22-0 | Not Established | Not Established | 15 - 17 |
| Hydroxyphenyl - benzotriazole derivatives | 104810-48-2 | Not Established | Not Established | 0.8-1.5 |
| Hydroxyphenyl-benzotriazole derivatives | 104810-47-1 | Not Established | Not Established | 0.8-1.5 |
| Bis(1,2,2,6,6-pentamethyl-4-pi peridyl) sebacate | 41556-26-7 | Not Established | Not Established | 0.6-0.9 |
| Hexamethylene-1, 6-diisocyanate | 822-06-0 | Not Established | Not Established | 0.5-1 |
| Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 82919-37-7 | Not Established | Not Established | 0.15-0.21 |

Section 4 First Aid Measures

Emergency First Aid Procedures

Inhalation: Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

Skin contact: Flush thoroughly with water for at least 15 minutes. If skin rash or an allergic skin reaction develops, get medical attention. Get medical attention if irritation develops and persists.

Eye contact: Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed: Irritating to eyes, respiratory system and skin. Irritation of nose and throat. Irritating to mucous membranes.

Indication of immediate medical attention and special treatment needed: Treat symptomatically. Symptoms may be delayed.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 Firefighting Procedures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk.

General fire hazards: Will burn if involved in a fire.

Section 6 Spill or Leak Procedures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:

Large Spills: Remove sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions Avoid release to the environment. Environmental manager must be informed of all major releases.

Section 7 Handling and Storage

Precautions for safe handling: Do not breathe mist or vapor. Do not smoke or use open fire or other sources of ignition. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Store in a cool and well-ventilated place.

Section 8 Protection Information

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|--|-------------|--------------|
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | TWA | 0.005 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--|-------------|-------------------------|
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | Ceiling | 0.14 mg/m ³ |
| | | 0.02 ppm |
| Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) | TWA | 0.035 mg/m ³ |
| | | 0.005 ppm |

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Provide adequate ventilation and minimize the risk of inhalation of vapors.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear approved safety glasses or goggles.

Skin protection:

Hand protection: Wear appropriate chemical resistant gloves. Rubber gloves are recommended.

Other: Wear appropriate chemical resistant clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 Physical Data

Appearance:

Physical state Liquid

Form Liquid

Color Not available

Odor: Not available

Odor threshold: Not available

pH: Not available

Melting point/freezing point: Not available

Initial boiling point and boiling range: 466 °F (241.11 °C)

Flash point: 217.0 °F (102.8 °C)

Evaporation rate: Not available

Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits

Flammability limit – lower (%): Not available

Flammability limit – upper (%): Not available

Vapor pressure: Not available

Vapor density: 6.5 (air = 1)

Relative density: 1.104

Solubility (water): Insoluble in water

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not available

Explosive properties: Not explosive

Oxidizing properties: Not oxidizing

Section 10 Reactivity Data

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Risk of ignition. Stable at normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products: Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides.

Section 11 Toxicity Data

Information on likely routes of exposure:

Inhalation May cause respiratory irritation.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and Toxicological characteristics: Irritating to eyes, respiratory system and skin. Irritation of nose and throat. Irritating to mucous membranes.

Information on toxicological effects:

Acute toxicity: Harmful if inhaled.

| <u>Components</u> | <u>Species</u> | <u>Test Results</u> |
|---|----------------|---------------------|
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7) <i>Oral</i> Acute LD50 | Rat | 2369 - 4247 mg/kg |
| Dipropylene glycol methyl ether acetate (CAS 88917-22-0) <i>Dermal</i> Acute LD50 | Rabbit | > 5000 mg/kg |
| Homopolymer of Hexamethylene Diisocyanate (CAS 28182-81-2) <i>Inhalation</i> Acute LC50 | Rat | 4.62 mg/l, 4 h |

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization: May cause allergic skin reaction.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive toxicity: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: Not classified.

Chronic effects: Prolonged or repeated contact may dry skin and cause dermatitis.

Further information: No other specific acute or chronic health impact noted.

Section 12 Ecological Data

Ecotoxicity: Harmful to aquatic life with long lasting effects.

| <u>Components</u> | <u>Species</u> | <u>Test Results</u> |
|--|----------------|---|
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7) | | |
| Aquatic | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) 1 mg/l, 96 Hours |
| Hydroxyphenyl - benzotriazole derivatives (CAS 104810-48-2) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Algae > 9 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia magna 4 mg/l, 48 hours |
| Fish | LC50 | Oncorhynchus masou ishikawae 2.8 mg/l, 96 hours |
| Hydroxyphenyl-benzotriazole derivatives (CAS 104810-47-1) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Algae > 9 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia magna 4 mg/l, 48 hours |
| Fish | LC50 | Oncorhynchus masou ishikawae 2.8 mg/l, 96 hours |

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available for this product.

Mobility in soil No data available.

Mobility in general The product is insoluble in water.

Other adverse effects No data available.

Section 13 Disposal Information

Disposal instructions: Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies.

Dispose in accordance with all applicable regulations.

Hazardous waste code: Waste codes should be assigned by the user based on the application for which the product was used.

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 Transport Information

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Section 15 Regulatory Information

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting):

| <u>Chemical name</u> | <u>CAS number</u> | <u>% by wt.</u> |
|---------------------------------|-------------------|-----------------|
| Hexamethylene-1, 6-diisocyanate | 822-06-0 | 0.5-1 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

US state regulations: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List: Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

US. New Jersey Worker and Community Right-to-Know Act: Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

US. Pennsylvania Worker and Community Right-to-Know Law: Not listed.

US. Rhode Island RTK: Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

US. California Proposition 65: Not Listed.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|-------------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 Additional Information

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.