MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	**VAPOR LOCK 1/1**
PRODUCT USE	A ready to use water-based penetrating sealer for concrete for sealing, hardening, dust-proofing, waterproofing and weatherproofing.
MANUFACTURER'S NAME	SPECIALTY PRODUCTS GROUP SPG TEL 1-877-957-4626 6254 SKYWAY RD., PO BOX 915 FAX 905-527-0606 SMITHVILLE, ON. L0R 2A0
SUPPLIER'S NAME	SEE MANUFACTURER
EMERGENCY NUMBER	613-996-666 OR *666 CANUTER 1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE
MSDS DATE	September 2 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS NUMBER	TWA Ppm	LD50 ORAL RAT Mg/kg	LC50 INHAL RAT ppm
SILICIC ACID, SODIUM SALT PROPIETARY BLEND	5-25	1344-09-8	NA	NA	NA

3. HAZARDS IDENTIFICATION

ROUTE OF ENTRY	Eye contact, Ingestion, Inhalation, Skin contact.
CARCINOGENIC STATUS	Not considered carcinogenic by NTP, IARC, and OSHA.
TARGET ORGANS	Eye, Skin, and lungs
HEALTH EFFECTS – EYE	Moderate irritation expected
HEALTH EFFECTS – SKIN	Moderate irritation expected.
HEALTH EFFECTS – INGESTION	May cause irritation to the mouth, esophagus and stomach and damage to kidney, central nervous system and blood.
HEALTH EFFECTS – INHALATION	Spray mist is irritating to the respiratory system.

4. FIRST AID MEASURES

FIRST AID – EYE	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention.
FIRST AID – SKIN	Immediately flood the skin with large quantities of water. Remove contaminated clothing and shoes. Obtain medical attention.
FIRST AID – INGESTION	If swallowed, Obtain medical attention immediately. If victim is fully conscious, give a cupful of milk. If conscious induce vomiting. Never give anything by mouth to an unconscious person.
FIRST AID – INHALATION	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	Non-flammable. Will not support combustion.
EXTINGUISHING MEDIA	Is compatible with all extinguishing media.
SPECIAL HAZARDS OF PRODUCT	Dries to form glass film which can easily cut the skin. Spilled material is very slippery. Can etch glass if not promptly removed.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	Wear full protective clothing when this material is present in the area of the fire.
FLASH POINT (PMCC) (°C/F)	Non-flammable.
UPPER FLAMMABLE LIMIT %VOL	NA
LOWER FLAMMABLE LIMIT %VOL	NA
AUTOIGNITION TEMP (°C/F)	NA
EXPLOSION DATA – SENSITIVITY TO IMPACT	NA
EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE	NA

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	Small spills – Mop up and neutralize liquid, dispose in accordance with federal, provincial and local regulations or permits. Large spills – Isolate hazard area. Do not touch or walk through spilled material. Isolate, dike and store discharged material, if possible. Use sand or earth to contain material. If containment is impossible, neutralize contaminated area and flush with large quantities of water.
PERSONAL PRECAUTIONS	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots. Use a NIOSH-approved dust and mist respirator where spray mist occurs.
ENVIRONMENTAL PRECAUTIONS	Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer.

7. HANDLING AND STORAGE

HANDLING	Avoid contact with eyes, skin and clothing. Avoid breathing mist. Keep container closed. Promptly clean up spills.
STORAGE	Keep container closed. Store in clean steel or plastic containers. Separate from acids, reactive metals and ammonium salts. Storage temperature 0-95 deg C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
RESPIRATORY PROTECTION	Use a NIOSH-approved dust and mist respirator where spray mist occurs. Observe Provincial regulations for respiratory use.
HAND PROTECTION	Full-length gloves should be worn during all handling operations. Neoprene gloves.
EYE PROTECTION	Chemical goggles should be worn during all handling operations to protect against splashing.
BODY PROTECTION	Discard contaminated protective equipment. If there is danger of splashing, wear overall or apron.
PROTECTION DURING APPLICATION	During application, adequate ventilation must be provided. Mix in a well-ventilated area. If ventilation is poor, wear respiratory protection. Dries to form glass film which can easily cut the skin. Spilled material is very slippery. Can etch glass if not promptly removed.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Odorless, clear
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	1.07 – 1.10
VAPOR DENSITY (AIR = 1)	ND
VAPOR PRESSURE 20 C	ND
EVAPORATION RATE	ND
BOILING POINT (^{0} C)	ND
FREEZING POINT (^{0} C)	ND
pH	ND
COEFFICIENT OF WATER/OIL DISTRIBUTION	ND
SOLUBILITY IN WATER	Miscible
VOC (g/l)	0

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions
CONDITIONS TO AVOID	Do Not Freeze
MATERIALS TO AVOID	Gels and can generate heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc. May react with strong oxidizing agents.
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen gas.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE	Irritation to the eyes and skin is expected. Irritation and burning sensation of mouth, throat, nausea, vomiting and abdominal pain. On inhalation of liquid will cause irritation to mucous membranes, coughing and wheezing.
EFFECTS OF CHRONIC EXPOSURE	May cause dermatitis and irritation on repeated contact.
EXPOSURE LIMITS	NA
IRRITANCY	Moderate irritation expected
SENSITIZATION	ND
CARCINOGENICITY	Not listed as a carcinogen by IARC, NTP or OSHA.
REPRODUCTIVE TOXICITY	ND
TERATOGENICITY	ND
MUTAGENICITY	ND
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	ND

12. ECOLOGICAL INFORMATION

MOBILITY	Sinks and mixes with water. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica.
PERSISTENCE/DEGRADABILITY	This product is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is harmful to aquatic life. Full ecological impact has not been determined.
BIO-ACCUMULATION	Neither silica nor sodium will appreciably bioconcentrate up the food chain.
ECOTOXICITY	The following data is reported for sodium silicate on a 100% basis: A 96 hour median tolerance for: Fish (Gambusia affnis) of 2320 ppm; Water fleas (Daphnia magna) of 247 ppm; Snail eggs (Lymnea) of 632 ppm; (Amphipoda) of 160 ppm.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Absorb product on an inert material (sand or earth) and transfer absorbed product into a waste container. Dispose of in accordance with all applicable local and national regulations.
CONTAINER DISPOSAL	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORTATION INFORMATION

CANADA	**TDG CLASSIFICATION**
HAZARD LABEL NOT REQUIRED	NOT REGULATED, Keep from freezing

EXPORT	
DOT CFR 172.101 DATA	NOT REGULATED
UN PROPER SHIPPING NAME	NA
UN CLASS	NA
UN NUMBER	NA
UN PACKAGING GROUP	NA
FLASH POINT	NA
HAZARDOUS MATERIAL	NA
HAZARD LABEL	NA

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: CLASS D, DIV.2, SUBDIVISION B-Material causing other toxic effects.
CEPA STATUS (DSL) : All of the ingredients of this product are listed on the Domestic Substances List.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

16. OTHER INFORMATION

HAZARD RATING (HMIS)	HEALTH: 2 FLAMMABLITY: 0 REACTIVITY: 0 0-MINIMAL; 1-SLIGHT; 2-MODERATE; 3-HIGH; 4-EXTREME
KEY	NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Conce.ntration 50%
PREPARED BY:	Specialty Products Group Inc.

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.