

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	BDE 1002 BIODEGRABLE ETCHER		
PRODUCT USE	To be used to etch concrete		
MANUFACTURER'S NAME	SPECIALTY PRODUCTS GROUP SPG 6254 SKYWAY RD., PO BOX 915, SMITHVILLE, ONTARIO, CANADA L0R 2A0.	TEL: 1-877-957-4626	FAX: 905-527-0606
SUPPLIER'S NAME	SEE MANUFACTURER		
EMERGENCY NUMBER	613-996-666 OR *666 CANUTER 1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE		
MSDS REVISION DATE	September 2, 2014		

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS NUMBER
HYDROCHLORIC ACID (BUFFERED)	1-10	7647-01-0

3. HAZARDS IDENTIFICATION

ROUTE OF ENTRY	Absorption, Eye contact, Ingestion, Inhalation, Skin contact.
CARCINOGENIC STATUS	Not considered carcinogenic by NTP, IARC, and OSHA.
TARGET ORGANS	Eye, Skin, Central Nervous System.
HEALTH EFFECTS – EYE	Liquid, mist or vapor will cause irritation and possibly corneal damage.
HEALTH EFFECTS – SKIN	Material will cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
HEALTH EFFECTS – INGESTION	Aspiration during swallowing or vomiting may severely damage the lungs. Swallowing may have the following effects: irritation of mouth, throat and digestive tract.
HEALTH EFFECTS – INHALATION	Exposure to vapor may have the following effects: eye irritation, irritation to nose, throat and respiratory tract. Exposure to vapor at high concentrations may have the following effects: dizziness, headache, lung inflammation

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 if soreness or redness persists.
FIRST AID – SKIN	Immediately flood the skin with large quantities of water, preferably under a shower. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.
FIRST AID – INGESTION	Have victim drink 1 – 3 glasses of water to dilute stomach contents. DO NOT INDUCE VOMITING. If there is difficulty in breathing give oxygen. Obtain medical attention immediately.
FIRST AID – INHALATION	Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	Non flammable
EXTINGUISHING MEDIA	N/A
SPECIAL HAZARDS OF PRODUCT	This product may give rise to hazardous fumes in a fire.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	Wear full protective clothing.
FLASH POINT (PMCC) (°C/F)	100° C/212°F
UPPER FLAMMABLE LIMIT %VOL	N/A
LOWER FLAMMABLE LIMIT %VOL	N/A
AUTOIGNITION TEMP (°C/F)	N/A Does not ignite
EXPLOSION DATA – SENSITIVITY TO IMPACT	Not explosive
EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE	Not explosive

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.
PERSONAL PRECAUTIONS	Eliminate all sources of ignition. Vapors can accumulate in low areas. Consider need for evacuation.
ENVIRONMENTAL PRECAUTIONS	Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

HANDLING	Use in well-ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.
STORAGE	Store away from sources of heat or ignition. Storage area should be: cool, dry, and well ventilated, out of direct sunlight, away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.
RESPIRATORY PROTECTION	The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator. The following protection is recommended: Respirator equipped with an organic vapor cartridge.
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. During application, flames and unsealed lights must be extinguished and adequate ventilation must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Clear
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	0.98- 1
VAPOR DENSITY (AIR = 1)	N/D
VAPOR PRESSURE 20 C	N/D
EVAPORATION RATE	N/D
BOILING POINT (° C)	100° C/212°F
FREEZING POINT (° C)	-5 – 0° C
Ph	1
COEFFICIENT OF WATER/OIL DISTRIBUTION	Water soluble
SOLUBILITY IN WATER	Completely water soluble
VOC (g/l)	0

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions
CONDITIONS TO AVOID	High temperatures
MATERIALS TO AVOID	Strong oxidizing agents, Alkalis, Acids, Bases
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE	Vapors may be irritating to the nose, throat, upper respiratory tract and lungs.
EFFECTS OF CHRONIC EXPOSURE	Irritation or hardening of skin.
EXPOSURE LIMITS	NA
IRRITANCY	Mild irritation expected
SENSITIZATION	No
CARCINOGENICITY	No known effect in humans
REPRODUCTIVE TOXICITY	No adverse reproductive effects as far as are known. However, full testing has not been conducted on this product.
TERATOGENICITY	NA
MUTAGENICITY	NA
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	NA

12. ECOLOGICAL INFORMATION

MOBILITY	Most of the product is well absorbed onto soils or sediments. Some of the product will leach into soil. The product is freely soluble in water.
PERSISTENCE/DEGRADABILITY	The product is expected to biodegrade
BIO-ACCUMULATION	No bioaccumulation expected .
ECOTOXICITY	Moderately toxicity due to pH change (low pH)

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Absorb product on an inert material (sand or earth) and transfer absorbed product into a waste container .Do not incinerate closed containers. 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. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORTATION INFORMATION

CANADA	TDG CLASSIFICATION
HAZARD LABEL 8	REGULATED in containers less than 450 liters as per package exemption 1.33 for domestic shipping.

EXPORT

DOT CFR 172.101 DATA	Not regulated (Section 173.8, exceptions for class 8)
UN PROPER SHIPPING NAME	HYDROCHLORIC ACID SOLUTION
UN NUMBER	1789
UN PACKAGING GROUP	II
FLASH POINT	Does not flash
HAZARDOUS MATERIAL	Hydrochloric acid (buffered)
HAZARD LABEL	8

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION : CLASS D2A CLASS E- Corrosive liquid
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 FLAMMABILITY: 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 Concentration 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.