RoVal®
7818 DEPOT LANE, TAMPA, FL 33637

FOR 24 HOUR EMERGENCY: CALL CHEM*TEL 1-800-255-3924
INTERNATIONAL: (813) 248-0573
FOR INFORMATION: (813) 988-4910
C.A.S. NO.: Mixture Proprietary
REVISION DATE: October 10, 2007

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

TRADE NAME: Dense Stone Impregnator
DOT SHIPPING NAME: Flammable Liquids, NOS (Isopropanol) **LABEL REQUIRED:** Flammable
DOT/UN ID NO.: UN 1993 **DOT CLASS:** 3 **PACKING GROUP:** II

2. INFORMATION ON HAZARDOUS INGREDIENTS

MATERIAL	C.A.S. NO.	PEL	STEL	TLV	TWA
Synthetic Isoparaffinic Hydrocarbon	64742-48-9	100 PPM	150 PPM	100 PPM	N.E.
Alkanes	C11-15-iso	N.E.	N.E.	300 PPM	N.E.
Heptane	142-82-5	N.E.	500 PPM	N.E.	400 PPM
Ethylacetate	141-78-6	N.E.	N.E.	N.E.	400 PPM
Isopropanol	67-63-0	N.E.	500 PPM	N.E.	400 PPM

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Flammable liquid.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Causes irritation, but does not injure eye tissue.

SKIN CONTACT: Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity. Skin contact may aggravate an existing dermatitis condition.

INHALATION: High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION: Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly death. Minimal toxicity.

4. FIRST AID MEASURES

SKIN: Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation develops, seek medical attention.
EYE: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
INGESTION: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.
INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Call for prompt medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: 53° F. Tag Closed Cup ASTM D 56
FLAMMABLE LIMITS: Lower: 2.5 Upper: 12.1
EXTINGUISHING MEDIA: Alcohol foam, dry chemical, water fog, sand, and carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURE: Fire fighters should wear full protective clothing including a self-contained breathing apparatus (SCBA). Cool endangered container(s) with water.
UNUSUAL FIRE EXPLOSION HAZARD: This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.
HAZARDOUS DECOMPOSITION PRODUCTS: SiO_2, carbon monoxide, carbon dioxide, flourine compounds and traces of incompletely burned hydrocarbons at combustion. At temperatures of approximately 302° F, a small amount of formaldehyde can be released by oxidative degradation.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wipe up small spills and drips. Discard in approved container, dike and absorb when necessary with inert material, such as vermiculite. Transfer to appropriate container for disposal.
FOR LARGE SPILLS: Eliminate all sources of ignition, i.e. pilot lights, flames, flares, static buildup, etc. Dike and absorb, to prevent spreading, with inert material, such as vermiculite. Transfer to appropriate container for disposal. All persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Stop spill at source. Do not flush to stream, river or other bodies of water or sewer. This material, if being discarded, would be classified an hazardous ignitable waste and should be disposed of , only after solidification, in a facility authorized to receive waste according to federal, state and local regulations with inert material, such as vermiculite. Transfer to appropriate container for disposal.

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7. HANDLING AND STORAGE

Keep away from sources of ignition, heat, sparks and flame. Use with adequate ventilation. Keep containers closed. Ground and bond equipment against static buildup when pouring, dispensing and mixing. Containers of this material may be hazardous when emptied. Since emptied containers may contain product residues, i.e. vapor, liquid and/or solid, all hazard precautions given in the data sheet must be observed.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA also permits the use of other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety supplier). Engineering or administrative controls should be implemented to reduce exposure.
VENTILATION REQUIREMENTS: Designed and maintained to prevent buildup of vapors in excess of TLV or PEL (see Part 2). Proper authorities should be notified when product is used in a confined and habituated area.
EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).
SKIN PROTECTION: Nitrile gloves, or equivalent. Impervious clothing and boots. Eye wash station and safety showers should be available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 178° F to 184° F
SPECIFIC GRAVITY (H_2O = 1): 0.77
DENSITY (LB/GAL): 6.58
EVAPORATION RATE: < Ether
SOLUBILITY IN WATER: None
PERCENT VOLATILE: 97%

pH: N.D.
VOC: 758.91 Grams/Liter

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials; carbon monoxide, carbon dioxide, various hydrocarbons, methyl alcohol at hydrolysis, SiO_2, and fluorine compounds at combustion.
KEEP AWAY FROM: Strong oxidizers, anhydrides, isocyanates, acetaldehyde, chlorine, ethylene oxide, hydrogen peroxide, aluminum and organometallic contaminants.

11. TOXICOLOGICAL INFORMATION

EYE CONTACT: Can cause severe irritation, redness, tearing, blurred vision and possible irreversible damage.
SKIN CONTACT: Repeated or prolonged contact can cause irritation, dermatitis, redness and burning.
INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, nausea, fatigue, headache, possible unconsciousness and even death. May cause allergic respiratory reaction similar to an asthma attack. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain damage.
INGESTION: Can cause gastro-intestinal irritation, nausea, vomiting and diarrhea. Other symptoms may include dizziness, drowsiness, weakness, fatigue, headache and unconsciousness. Swallowing small amounts incidental to normal handling is not likely to cause problems.
ACUTE EFFECTS FROM OVEREXPOSURE: Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: anemia, liver abnormalities, kidney damage and eye damage. Overexposure to this material (or its components) has apparently been found to cause the following effects in humans: cardiac abnormalities. Persons with pre-existing skin or respiratory disorders may be more susceptible to the effects of the product.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: N.D.
ENVIRONMENTAL EFFECTS: N.D.

13. DISPOSAL CONSIDERATIONS

Disposal of according to all federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME: Flammable Liquids – NOS (Isopropanol)
TECHNICAL SHIPPING NAME: Dense Stone Impregnator
DOT HAZARD CLASS: 3
UN/NA NUMBER: UN 1993
PACKING GROUP: II
DOT LABEL: Flammable Liquids – NOS (Isopropanol)
DOT PLACARD: Flammable

15. OTHER INFORMATION

HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
2	3	0	

(Degree of hazard: 0 = No Hazard, 4 = Severe Hazard)

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

< = Less Than
> = More Than
N/A = Not Applicable or Not Available
N.D. = Not Determined
N.E. = None Established