

MATERIAL SAFETY DATA SHEET

LIQUID FORMULA 77

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SECTION I: PRODUCT INFORMATION

TRADE NAME: LIQUID FORMULA 77
SUPPLIER/MANUFACTURER: Chemspec-Hunnisett, #100, 211 Westcreek Drive, Woodbridge, Ont., L4L 9T7 (416) 421-5212
PREPARATION DATE: January 10, 2008
PRODUCT USE: Carpet Detergent
PRODUCT IDENTITY: Mixture

CLASS D2B

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY: Sodium Xylene Sulfonate CAS# / NA# / UN#: 1300-72-7 (W/W): 15 - 40 %
OSHA PEL, ACGIH TLV: Not Available TOXICITY: Not Available

CHEMICAL IDENTITY: Tetrasodium ethylenediaminetetraacetate CAS# / NA# / UN#: 64-02-8 (W/W): 1 - 5 %
ACGIH TLV: TWA / TLV 1 mg / cu. Meter TOXICITY: LD50 oral, rat 1000 - 2000 mg / kg.

CHEMICAL IDENTITY: Sodium Carbonate CAS# / NA# / UN#: 497-19-8 (W/W): 3 - 7%
OSHA PEL, ACGIH TLV: 10 mg/cu m TOXICITY: LD50 oral, rat 2800 mg / kg

CHEMICAL IDENTITY: Sodium Alpha Olefin Sulfonate CAS# / NA# / UN#: 68439-57-6 (W/W): 1 - 5 %
OSHA PEL, ACGIH TLV: TOXICITY (LD50 & LC50): LD50 (oral rabbit) 3900 mg / kg.
LC50 guinea pig 800 mg/kg

CHEMICAL IDENTITY: Free acid, Phosphated Isodecyl Alcohol CAS# / NA# / UN#: 122-99-6 (W/W): 1- 5 %
OSHA PEL, ACGIH TLV: Not established TOXICITY: LD50 Not Available

CHEMICAL IDENTITY: Alcohol Ethoxylate (C12-C15) CAS# / NA# / UN#: 68131-39-5 (W/W): 1 - 5%
OSHA PEL, ACGIH TLV TOXICITY: Oral LD50 Rat >500-5000mg/kg

CHEMICAL IDENTITY: Ethoxylated Alcohol CAS# / NA# / UN#: 160875-66-1 (W/W): 1 - 5 %
OSHA PEL, ACGIH TLV: TOXICITY: LD50 >500 mg / kg;

SECTION III: PHYSICAL DATA

PHYSICAL STATE: Liquid APPEARANCE AND ODOR: Yellow with slight perfume odor
ODOR THRESHOLD: None known SPECIFIC GRAVITY: 1.1
VAPOR PRESSURE: Similar to water VAPOR DENSITY: Not determined
EVAPORATION RATE: Not determined BOILING POINT: Approx. 102 degrees C
FREEZING POINT: - 7 degrees C pH: 12.8 - 13.2
COEFFICIENT OF WATER/OIL DISTRIBUTION: Miscible WATER SOLUBILITY: 100%

SECTION IV: FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY:

(a) Not Flammable

MEANS OF EXTINCTION: Not combustible

UPPER FLAMMABLE LIMIT: None

AUTO-IGNITION TEMPERATURE: None

HAZARDOUS COMBUSTION PRODUCTS: None known

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT: Not sensitive

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE: Not sensitive

SECTION V: REACTIVITY DATA

CONDITION UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE: Stable

NAME OF ANY SUBSTANCE OR CLASS OF

SUBSTANCE WITH WHICH THE PRODUCT IS INCOMPATIBLE: Mineral acids

CONDITIONS OF REACTIVITY: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

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SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:

SKIN CONTACT: Slight irritant

SKIN ABSORPTION: Slight irritant

EYE CONTACT: Irritant

INHALATION: May be irritant

INGESTION: Call physician

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: None known

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: None known

EXPOSURE LIMITS: None known

IRRITANCY OF PRODUCT: Ingestion - see above

SENSITIZATION TO PRODUCT: None known

CARCINOGENITY: None known

REPRODUCTIVE TOXICITY: None known

TERATOGENICITY: None known

MUTAGENICITY: None known

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known

SECTION VII: PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses

ENGINEERING CONTROLS: Adequate ventilation

PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL: Mop up

WASTE DISPOSAL: Flush to sanitary sewer if permitted by Municipal & Provincial regulations

HANDLING PROCEDURES AND EQUIPMENT: Normal

STORAGE REQUIREMENTS: None

SPECIAL SHIPPING INFORMATION: None

SECTION VIII: FIRST AID MEASURES

IN CASE OF EYE CONTACT: Flush with water. Consult physician.

IN CASE OF SKIN CONTACT: Flush with water.

IF INHALED: Remove to fresh air. If symptoms persist seek medical attention.

IF INGESTED: Obtain medical attention. Do not induce vomiting.

PHYSICIAN: pH as supplied of 12.8 - 13.2. Contains nonionic detergent.

SECTION IX: PREPARATION INFORMATION

PREPARED BY: E. Vismantas (416) 421-5212

24 HOUR EMERGENCY NUMBER: CANUTEC 1-613-996-6666

SPECIAL PRECAUTIONS

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human - system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all expressed or implied warranties of merchantability or of liability from the use of this product. The information contained herein, as of this date, is believed to be true and accurate, but it is the user's obligation to study the MSDS and determine the conditions for the safe use of this product.
