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DENATURED ALCOHOL

Brenntag Great Lakes LLC
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SECTION I - PRODUCT

PRODUCT NUMBER: 3723
PRODUCT NAME: MILSOLV 4217 M. ANHYDROUS
DATE OF PREPARATION: 1/01/01
REPLACES: 1/01/00
HMIS RATING: HEALTH 1
 FLAMMABILITY 3
 REACTIVITY 0
EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

BATF-043

SECTION II - HAZARDOUS INGREDIENTS

PRODUCT NAME	CAS #	VAPOR PRESSURE (mm Hg)	TLV	UNITS
CHEMICAL NAME		PERCENT	PEL	UNITS
METHANOL	67-56-1	96.0	200	PPM
METHYL ALCOHOL		>9%	200	PPM
ISOPROPYL ALCOHOL	67-63-0	40.0	400	PPM
ISOPROPANOL		<9%	400	PPM
ETHYL ALCOHOL	64-17-5	40.0	1000	PPM
ETHANOL		>9%	1000	PPM

SECTION III - PHYSICAL DATA

BOILING RANGE: 148 - 176 DEG F
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
PERCENT VOLATILE BY VOLUME: 100%
WEIGHT/GALLON: 6.62 LBS/GAL

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARD CLASSIFICATION OSHA: FLAMMABLE LIQUID-CLASS IB
DOT: 3
FLASH POINT (TCC): > 54 DEG F
LOWER EXPLOSION LIMIT % BY VOLUME (IN AIR): > 3.3
EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, Alcohol-type foam, Water spray.
SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors form from this product and may settle in low places, travel along the ground, or move by air currents to be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges, or other ignition sources at locations distant from handling point. Product contains alcohol, therefore flames might be

difficult to see because they are virtually colorless. Can react vigorously with strong oxidizing agents.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

INGESTION: Nausea. Drowsiness. Headache. Dizziness. Incoordination. Loss of consciousness. Difficulty with speech. Central nervous system depression. Death. Blindness.

SKIN ABSORPTION: Possible systemic effects.

INHALATION: Narcosis. Dizziness. Nausea. Drowsiness. Loss of coordination. Visual impairment. Irritation. Respiratory failure.

SKIN CONTACT: Irritation. Chapping. Dermatitis. Erythema. Scaling.

EYE CONTACT: Irritation.

CHRONIC EFFECTS OF OVEREXPOSURE: Toxic effects of methanol are accumulative and affect the nervous system, especially the optic nerve. These symptoms may linger for several days after overexposures.

OTHER HEALTH HAZARDS: No information furnished by manufacturer.

PRIMARY ROUTE(S) OF ENTRY: Ingestion. Skin absorption. Inhalation.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician. Give plenty of water or, if available, milk to drink.

SKIN: Flush skin with water. Immediately wash skin with soap and plenty of water. Remove and wash contaminated clothing promptly. Call a physician.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

NOTES TO PHYSICIAN: No information furnished by manufacturer.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Heat. Ignition sources. Fire.

INCOMPATIBILITY: Sulfuric acid. Strong oxidizing agents. Nitrates. Perchlorates.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Carbon dioxide. Toxic vapors. Formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: No information furnished by manufacturer.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contact local authorities. Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Flush small spills with water.

WASTE DISPOSAL: Reclamation in accordance with all federal, state, and local regulations. Incineration in accordance with all federal, state, and local regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Supplied-air respirator approved by NIOSH in areas of high concentration.

VENTILATION: General (mechanical) room ventilation to maintain vapor levels below TLV is expected to be satisfactory. Special, local ventilation is needed at points where vapors or mists are expected to escape to the workplace air.

PROTECTIVE GLOVES: Consult the glove manufacturer for the most appropriate glove material.

EYE PROTECTION: Chemical safety goggles. Face shield.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower. Wear protective clothing to prevent repeated or prolonged contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! May be fatal if swallowed. Cannot be made nonpoisonous. Causes eye irritation. Avoid prolonged or repeated breathing of vapor. Flammable. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Keep away from heat, sparks, and flame. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Store in cool, dry, ventilated area. Do not take internally. Normal precautions common to good manufacturing practice. Equipment and containers should be bonded and grounded when transferring or using material. Empty containers should not be exposed to fire, sparks, or flame as residual vapors may be explosive. Separate from oxidizing materials. May cause blindness if swallowed. Since emptied packages retain product residue, follow label warnings even after package is emptied. Use explosion-proof electrical fixtures. Use only non-sparking tools.

OTHER PRECAUTIONS: This product can be biodegraded, at low concentrations in water, in a biological wastewater treatment plant. Do not ingest. The Bureau of Alcohol, Tobacco, and Firearms (Dept. of the Treasury) regulates the production, procurement, storage, and use of ethyl alcohol products. All uses must comply with these regulations. Contact lenses should not be worn.

Section 313 Supplier Notification

This product contains the following toxic chemicals
subject to the reporting requirements of section 313 of
the Emergency Planning and Community Right-To-
Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent by Weight
67-56-1	METHANOL	13.0%

This information must be included in all MSDSs that
are copied and distributed for this material.