H1BAK1730 MotorVac HD Gasoline Fuel System Cleaning Solution (700-2378)

MATERIAL SAFETY DATA SHEET

Effective Date: 10-30-98 Revision Date: none

MotorVac HD Gasoline Fuel System Cleaning Solution (700-2378)

Code: MVT

Section 1 - Product and Company Identification

PRODUCT NAME: MotorVac HD Gasoline Fuel System Cleaning Solution (700-2378)

MANUFACTURER'S NAME:

EMERGENCY TELEPHONE NUMBER MotorVac Technologies, Inc. (800)424-9300

1350 Reynolds Ave., Suite 103

Irvine, CA 92714

MISCELLANEOUS INFORMATION (714)549-8810

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Section 2 - Hazardous Ingredients

All components of this product are on the TSCA List. Sara Title III Section 313 Supplier Notification. This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

SARA TITLE III INGREDIENTS CAS# Wt. % (Reg. Section) RQ (lbs.) Light Aromatic Solvent Naphtha

*64742-95-6 Not appl. (311, 312) None *1, 2, 4-Trimethylbenzene 95-63-6 7(311, 312, 313, RCRA) *2-Butoxyethanol 111-76-2 8 (313) None None Specific chemical identity withheld N/A Not appl. (311,, 312) N/A

as trade secret

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire.

CAS# TWA + (OSHA) TLV (ACGIH)

Light Aromatic Solvent Naphtha

*64742-95-6 100 PPM 5 mg/m3

1, 2, 4- Trimethylbenzene

25 PPM 25 PPM

95-63-6 111-76-2 25 PPM (S) 25 PPM (S) 2-Butoxyethanol Specific chemical idenity withheld N/A 25 PPM (S) 25 PPM (S)

as trade secret

MATERIAL CAS# CEILING STEL (OSHA/ACGIH)

Specific chemical identity N/A Not Known 40 PPM

withheld as trade secret

MATERIAL CAS# Lowest known lethal dose data

Lowest known LC50 (vapors)

2-Butoxyethanol 111-76-2 700 PPM (mice)

Hazards: Health (NFPA): 2 Health (HMIS): 3 Flammability 2 Reactivity: 0

Balance of ingredients: Non Hazardous

9-Octadecanoic acid (z) ammonium salt CAS #: 544-60-5

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Section 3 - Hazards Indentification

Threshold limit value: Not applicable

Contains Petroleum Naphtha, 2-Butoxyethanol

Warning! Combustible! Acute Hazards

Eye & Skin Contact:

Primary irritation to skin, defatting, dermatitis. Absorption through skin increase exposure.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye burns. Wash thoroughly after handling.

Inhalation:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation.

Acute overexposure can cause damage to kidneys, blood, nerves, liver, and lungs.

Swallowing:

Harmful or fatal if swallowed.

Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

Subchronic Hazards / Conditions Aggravated

Subchronic hazards:

Absorption through skin may be harmful. Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

Conditions aggravated:

Persons with severe skin, liver, heart, lung or kidney problems should avoid use.

Chronic hazards:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, OR ACGIH, as of this date, greater or equal to 0.1%.

This product may contain less than 1 PPM of benzene.

Not considered hazardous in such low concentrations.

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Section 4 - First Aid Measures

Eye Contact:

Immediately flush with plenty of water for 15 minutes & call a physician. Skin Contact:

Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse. (Discard contaminated shoes.)

Inhalation:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. Call a physician immediately!

Swallowing:

Call a physician immediately! Do not induce vomiting. Never give anything by mouth to an unconscious person. Have patient lie down and keep warm. Vomiting may lead to pneumonititis, which may be fatal.

Section 5 - Firefighting Measures

Lower flammable limit in air (% by vol.): 1.0

Flash point (test method): 112 deg F/ 44.4 deg C (TCC) (lowest component) Flammability classification: Class II

Extinguishing media:

NFPA Class B extinguishers (carbon dioxide or foam) for Class II liquid fires.

Special fire fighting procedures:

Water spray may be ineffective on fire but can protect firefighters and cool closed containers.

Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive pressure self-contained breathing apparatus.

Unusual explosion and fire procedures: Combustible!

Keep container tightly closed. Isolate from oxidizers, heat & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

Section 6 - Environmental Release Measures

Spill or leak procedures:

Stop spill at source. Dike area & contain. Clean up remainder with absorbent materials. Mop up and dispose of.

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Section 7 - Handling and Storage

Handling:

Isolate from oxidizers, heat, and open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Do not get in eyes, on skin or clothing. Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Avoid free falll of liquid. Ground containers when transferring. Do not flame cut, braze, or weld. Empty container very hazardous! Continue all label precautions! Storage:

Do not store above 49 deg C/120 deg F. Store large amounts in structures made for OSHA

Class II liquids. Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 - Exposure Controls/Personal Protection

Exposure controls: None necessary.

Ventilation:

Local exhaust: Necessary

Mechanical (general): Acceptable

Special: None Other: None Personal protection

Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse

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Section 9 - Physical and Chemical Properties

Appearance:

Liquid, amber color

Odor:

Ammonia odor

Boiling Range: 100 172 204 deg C/212 343 400 deg F

Specific gravity (water =1): 0.92

Pounds/gallon (lbs./gal): 7.66

VOC's (vapor pressure >0.44 lbs./in 2) (lbs./qal.): 0.000

Total volatile organic compounds (TVOC) (gr/lt): 595.0

Vapor pressure (mm of HG) @ 20 deg C: 1.6 4.3 Vapor density (air = 1): % Volatile by vol.: 100.0 ______ Section 10 - Stability and Reactivity Stability: Stable Conditions to avoid: Isolate from oxidizers, heat, and open flame. Material to avoid: Isolate from strong oxidizers such as permanganates, chromates and peroxides. Hazardous decomposition products: Carbon monoxide, carbon dioxide from Hazardous polymerization: Will not occur. ______ Section 11 - Toxicological Information No information. ______ Section 12 - Ecological Information No information. ______ MATERIAL SAFETY DATA SHEET Effective Date: 10-30-98 Revision Date: none MotorVac HD Gasoline Fuel System Cleaning Solution (700-2378) Page: 7 Code: MVT ______ Section 13 - Disposal Considerations This product is considered a hazardous waste. May be incinerated or burned in a RCRA licensed facility. Waste disposal method: Recycle or dispose of observing local, state & federal health, safety & pollution laws. If questions exist, contact the appropriate agencies. ______ Section 14 - Transport Information *Note the information below are just guidelines. It is the responsibility of the shipper to ensure that all the proper procedures are followed. When shipped by ground (U.S.A.), in small quantities: Consumer commodity When shipped by ground (U.S.A.), in drums: not regulated When shipped by air:

(NOT APPLICABLE TO DRUMS)

D.O.T. CFR 49 proper shipping name: Consumer Commodity

Hazardous Class: 9
UN Number: ID 8000

Packing Group: N/A Packing Instruction: 910

Transportation Details: Permitted in Passenger and Cargo Aircraft (in

appropriate quantities), Non-Radioactive

DRUMS: D.O. T. CFR 49 proper shipping name: Petroleum distillates, N.O.S.

Hazardous Class: 3 UN Number: 1268

Packing Group: III Packing Instruction: 310

Transportation Details: Cargo Aircraft Only,

Non-Radioactive

Section 15 - Regulatory Information

California proposition 65: This product contains no known chemical known to the State of California to cause cancer or reproductive toxicity.

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Section 16 - Other Information

Notice

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in

combination with other material or process.