



Product Identity: MotorVac, Fuel System Cleaner MV3

Part #: 400-00200

Material Safety Data Sheet

Approved by U.S. Dept., essentially similar to form OSHA 174.

IMPORTANT: Read this MSDS before handling and disposing of this product.

Pass this information on to employees, customers, and users of this product.

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Fuel System Cleaner
Part #: 400-00200

Motorvac Inc.
1324 Blundell Rd
Mississauga ON L4Y1M5
Canada

Effective: 10/22/10
Printed: 03/14/11

Tel: (905) 615-6820
24-hour Emergency Phone, Chemtrec: 1-800-424-9300, or international 01-703-527-3887

SECTION 2. INGREDIENT & REGULATORY INFORMATION

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.

<u>SARA TITLE III INGREDIENTS</u>	<u>CAS#</u>	<u>Wt.%(Reg.Section)</u>	<u>RQ(lbs.)</u>
Light Aromatic Solvent Naphtha	*64742-95-6	Not appl.(311,312)	None
*1,2,4-Trimethylbenzene	95-63-6	7 (311,312,313,RCRA)	None
*2-Butoxyethanol	111-76-2	8 (313)	None
Specific chemical identity withheld as trade secret	N/A	Not appl.(311,312)	N/A

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

<u>MATERIAL</u>	<u>CAS#</u>	<u>TWA + (OSHA)</u>	<u>TLV (ACGIH)</u>
Light Aromatic Solvent Naphtha	*64742-95-6	100 PPM	5 mg/m ³
1,2,4-Trimethylbenzene	95-63-6	25 PPM	25 PPM
2-Butoxyethanol	111-76-2	25 PPM(S)	25 PPM(S)
Specific chemical identity withheld as trade secret	N/A	25 PPM(S)	25 PPM(S)



<u>MATERIAL</u>	<u>CAS#</u>	<u>CEILING</u>	<u>STEL(OSHA/ACGIH)</u>
Specific chemical identity withheld as trade secret	N/A	Not known	40 PPM

<u>MATERIAL</u>	<u>CAS#</u>	<u>Lowest known lethal dose data</u> <u>Lowest known LC50 (vapors)</u>
2-Butoxyethanol	111-76-2	700 PPM (mice)

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

WHMIS Classification: B3, Combustible Liquid , D2B, Toxic Material

Balance of ingredients: Non-Hazardous

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

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

SECTION 3. HAZARDOUS IDENTIFICATION

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.



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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.

SECTION 4. FIRST AID MEASURES PROCEDURES

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 pneumonitis, which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

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

Flash point (test method): 112 °F/ 44.4 °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 fire-fighters 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. ACCIDENTAL RELEASE MEASURES

Spill or leak procedures:

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

Waste disposal method:

Recycle or dispose of observing local, state & federal health, safety & pollution laws. If questions exist, contact the appropriate agencies.

Other precautions:

None.

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 fall of liquid. Ground containers when transferring. Do not flame cut, braze, or weld. Empty container very hazardous! Continue all label precautions!

Storage:

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 AND 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.



SECTION 9. PHYSICAL DATA

Appearance:	Liquid, green color
Odor:	Solvent odor
Boiling Range:	100 172 204 °C/ 212 343 400 °F
Specific gravity (water = 1):	0.92
Pounds/gallon (lbs./gal):	7.66
VOC's (vapor pressure > 0.44 lbs./in ²) (lbs./gal):	0.000
Total volatile organic compounds (TVOC) (gr/lt):	595.0
Vapor pressure (mm of HG)@20 °C:	1.6
Vapor density (air = 1):	4.3
%Volatile by vol.:	100.0

SECTION 10. REACTIVITY DATA

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 burning.

Hazardous polymerization: Will not occur.

SECTION 11.

Not available

SECTION 12.

Not available

SECTION 13. DISPOSAL CONSIDERATIONS

This product is considered a hazardous waste. May be incinerated or burned in a RCRA licensed facility.

SECTION 14. TRANSPORTATION 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.), not regulated ref. CFR 173.150

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: Petroleum distillates, n.o.s.



Hazardous Class: 3 UN Number: 1268
Packing Group: III Packing Instruction: Y309
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.

SECTION 16

Not available

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 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 any other material or process.