



Material Safety Data Sheet

Oil Clean

Section 1—CHEMICAL PRODUCT AND COMPANY INFORMATION	
Product Brand: MotorVac	Product Part #: 400-0152, 400-0146, 400-0147
Motorvac Technologies Inc. 1324 Blundell Rd Mississauga , ON L4Y1M5 905-615-8620	Product Name: Crankcase Cleaner
	24-Hour Emergency Contact:
	Date Effective: Feb/14/2011
Prepared by: Amjad Mousa	

Section 2—COMPOSITION / INFORMATION ON INGREDIENTS					
Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS NUMBER	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
Light aromatic solvent naphtha	*64742-95-6	100 ppm	5 mg/m ³		N/A
1,2,4-Trimethylbenzene	*95-63-6	25 ppm	25 ppm		7
2-Butoxyethanol	*111-76-2	25 ppm	25 ppm	Lowest known lethal dose : 700 ppm (mice)	8
Zinc salt	26566-95-0	5 mg/m ³	5 mg/m ³		2
Specific chemical identity withheld as trade secret	N/A	25 ppm	25 ppm	STEL/(OSHA/ACGIH) 40 ppm	N/A

Section 3—HAZARDS IDENTIFICATION							
Threshold limit value:	N/A						
Contains:	Petroleum Naphtha, 2-Butoxyethanol. Warning! Combustible! Acute hazards!						
Potential Health Effects:	<p>EYE Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye burns. Wash thoroughly after handling.</p> <p>SKIN Primary irritation to skin, defatting, dermatitis. Absorption through skin increase exposure.</p> <p>INHALATION Vapor harmful. Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver and lungs.</p> <p>INGESTION Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.</p>						
Subchronic Health Hazards:	Absorption through skin may be harmful. Chronic overexposure can cause damage to kidneys, blood, nerves, liver and lungs.						
Chronic Health Hazards:	This product may contain less than 1 ppm of benzene.						
Medical Conditions Aggravated by Exposure:	Persons with severe skin, liver, heart, lung or kidney problems should avoid use.						
Carcinogenicity:	<table border="0"> <tr> <td>OSHA</td> <td>No</td> <td>IARC</td> <td>No</td> <td>NTP</td> <td>No</td> </tr> </table>	OSHA	No	IARC	No	NTP	No
OSHA	No	IARC	No	NTP	No		

Section 4—FIRST AID MEASURES	
Eye:	Immediately flush with plenty of water for 15 minutes and 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!
Ingestion:	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	
Flash Point (Method Used):	112° F / 44.4 °C (TCC) (lowest component)
Flammable	LEL (lower explosion limit): (% by volume): 1.0



Limits	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 coat, gloves and rubber boots). Use NIOSH-approved positive-pressure self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards:	Combustible! Keep container tightly closed isolate from oxidizers, heat and 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!	
NFPA National Fire Protection Agency:	Health 2	Flammability 2 Reactivity 0
WHMIS Classification	D2B Toxic material	B3 Combustible Liquid
HMIS Hazardous Material Identification:	Health 3	Flammability 2 Reactivity 0

Section 6—ACCIDENTAL RELEASE MEASURES	
Spill or Leak Procedures:	Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials. Mop up and dispose of.
Waste Disposal Method:	Recycle or dispose of observing local, state and federal health, safety and pollution laws. If questions exist, contact the appropriate agency.

Section 7—HANDLING AND STORAGE	
Storage Temperature (MAX):	120° F / 49° C
Handling/Storage Precautions:	Store large amounts in structures made for OSHA Class II liquids. Keep container tightly closed and upright when not in use to prevent leakage. 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!

Section 8—EXPOSURE CONTROLS/PERSONAL PROTECTION	
Ventilation:	Necessary
Mechanical (general):	Acceptable
Respiratory Protection:	Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Do not get in eyes, on skin or clothing. Consult safety equipment supplier.
Skin Protection:	Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Consult safety equipment supplier.
Eye Protection:	Wear OSHA standard goggles or face shield. Consult safety equipment supplier.

Section 9—PHYSICAL / CHEMICAL PROPERTIES			
Physical State:	Liquid	Freezing Point:	N/D
Appearance:	Amber	Melting Point:	N/A
Odor:	Ammonia odor	Boiling Point °F (°C)	212 343 400° F / 100 172 204° C
Specific Gravity(H ₂ O=1):	0.92	Vapor Density (AIR=1):	4.3
pH:	N/A	Vapor Pressure (mm Hg):	1.6
Percent Volatiles (VOC):	65%	Pounds/Gallon:	7.66
Total Volatile Organic Compounds	595.0	VOCs (vapor pressure>0.44 lbs./sq in	0.00



Section 10—STABILITY AND REACTIVITY	
Chemical Stability:	Stable
Incompatibility:	Isolate from strong oxidizers such as permanganates, chromates and peroxides
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide from burning.
Hazardous Polymerization:	Will not occur.
Condition to Avoid	Isolate from oxidizers, heat and open flame.

Section 11—TOXICOLOGICAL INFORMATION
Not available.

Section 12—ECOLOGICAL INFORMATION
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 is just a guideline. It is the responsibility of the shipper to ensure that all the proper procedures are followed.	
When shipped by ground (USA)	Not regulated ref. CFR 173.150
When shipped by ground (USA) in drums:	Not regulated
When shipped by air (not in 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.
When shipped by air in 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.
All components of this product are on the TSCA List. SARA Title III Section 313 Supplier Notification. This product contains the indicated <*> toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.



Section 16—OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume to liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Motorvac Technologies Inc. Co. be liable for any claims, losses or damages of any third party of for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Motorvac Technologies Inc. Co. has been advised of the possibility of such damages.

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