

**HALL CHEM MFG. INC.**1270 rue Nobel  
Boucherville Qc J4B 5H1

Tel. : (450) 645-0296

Fax : (450) 645-0444

**MATERIAL SAFETY DATA SHEET****EMERGENCY : CANUTEC (613) 996-6666****MSDS : 1110-2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT :** Motor shampoo**USE OF PRODUCT :** Solvent, thinner**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME :****WHMIS:** B3, D2B**P.N.I. :** NR**PACKING GROUP :****PRIMARY CLASS :****SUBSIDIARY CLASS :****COMPONENTS**

COMPOSITION	% V/V	CASE #	LD <sub>50</sub> mg/kg Oral/rat	LC <sub>50</sub>	TLV ppm 8h
Vansol 63	85-95	6474294-5	<10 ml/kg	3800mg/m <sup>3</sup>	
2-butoxyethanol	5-15%	111-76-2	2500		25

**PHYSICAL CHARACTERISTICS**

<b>PHYSICAL STATE :</b> Liquid	<b>APPEARANCE :</b> Colorless	<b>ODOR :</b> Light aromatic	<b>ODORTRESHOLD :</b> Not available
<b>VAPOR TENSION (38°C):</b> >3,5 mm Hg	<b>VAPOR DENSITY (air = 1) :</b> >1.0	<b>EVAPORATING RATE (butyl acetate = 1) :</b> 0,03 – 0,1	
<b>BOILING RANGE :</b> 182 to 202°C	<b>FREEZING POINT :</b> < 0°C	<b>pH :</b> Not available	



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<b>DENSITY</b> : 0,88-0,89 (15°C)	<b>DISTRIBUTION FACTOR</b> <b>WATER/OIL</b> : Not available	<b>SOLUBILITY IN WATER (20°C)</b> : Very low
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**REACTIVITY DATA****CHEMICAL STABILITY** : Stable**INCOMPATIBILITY WITH OTHER PRODUCTS** : Comburant agents**REACTIVITY CONDITIONS** : No hazardous polymerization.**EXPLOSION AND FIRE RISKS****FLAMMABILITY** : Flammable in presence of open flames, sparks, and heat.**EXTINGUISHING METHODS** : Dry chemical, carbon dioxide, foam, water fog**FLASH POINT** : 65°C, Tag closed cup**AUTO-IGNITION TEMPS.** : 510°C**FLAMMABILITY (% per volume)****SUPERIOR LIMIT** : 7,0**LOWER LIMIT** : 1,0**HAZARDOUS COMBUSTION PRODUCT** : Carbon oxides**EXPLOSIBILITY DATA** :**TOXICOLOGICAL PROPERTIES**

<b>ABSORPTION WAYS</b>			<b>CONTACT</b>	
<b>SKIN</b> ✓	<b>INHALATION</b> ✓	<b>INGESTION</b> ✓	<b>WITH SKIN</b> ✓	<b>EYES</b> ✓

**EFFECTS OF EXPOSURE TO PRODUCT** : Product can irritate skin, eyes and respiratory tract, and can cause nausea, vomiting, diarrhea and headaches. The aspiration of the product into the lungs can produce chemical pneumonitis which can be fatal.

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**PREVENTIVE MEASURES**

**PROTECTIVE EQUIPMENT :** Gloves, security glasses, respiratory system and protective apron.

**GLOVES :** Vitron, nitrile

**RESPIRATORY SYSTEM :** NIOSH – approved supplied-air respirator

**OCULAR INSTRUMENT :** Chemical safety goggles and/or full face shield

**CLOTHING :** Impervious clothing, protective apron

**TECHNICAL CONTROL :** Local ventilation is recommended for all indoor situations to control fugitive emissions.

**PROCEDURE IN CASE OF LEAKS/SPILLS :** Eliminate all sources of ignition. Prevent product to spread and going into sewers and other waterways. Absorb the spill with sand, earth or an appropriated absorbent. Do not use combustible products. Eliminate spills at the surface of water with an appropriated absorbent. Put the spills and land spills in containers . Keep containers electrically grounded.

**HANDLING :** Handle and open the containers with precaution. Do not weld or cut the containers because they can contain residues from flammable vapors. Do not heat or pressurize containers. Do not put any other material in empty containers. Do not smoke, eat or drink on working areas. Keep containers electrically grounded specially during manipulation or while transferring for avoid the accumulation of static.

**WASTE DISPOSAL :** According to local, provincial and federal regulations.

**STORAGE :** Storage in a cool, dry, well ventilated area. Keep away from not compatible material, and from ignition sources (open flame, sparks, heat). Keep containers electrically grounded specially during manipulation or while transferring for avoid the accumulation of static.



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**FIRST AID**

**SKIN :** Wash exposed area for at least 20 minutes and remove contaminated clothing and shoes. Consult a physician.

**EYES :** Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention.

**INHALATION :** Remove victim in a fresh and well ventilated area, and restore breathing if it is necessary. If not breathing, give artificial respiration. Obtain medical attention.

**INGESTION :** Do not induce vomiting. Obtain medical attention immediately.

**NOTES TO PHYSICIAN :** The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. If more than 2,0 mL/kg has been ingested, vomiting should be induced with supervision. If symptoms such as loss of reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

**INFORMATION ON THE M.S.D.S. PREPARATION**

**PREPARED BY :**  
Hall Chem Mfg. Inc.

**TELEPHONE :** (450) 645-0296

**REVISED** January 2015

**NOTE :**

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