



# MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet complies with the Canadian Controlled Products Act*

**\*\*NOTE: THE FOLLOWING INFORMATION PROVIDED IS FOR THE PRODUCT CONCENTRATE ONLY, NOT FOR USE-DILUTIONS\*\***

| SECTION 1 – PRODUCT IDENTIFICATION |  |             |  |  |   |
|------------------------------------|--|-------------|--|--|---|
| PRODUCT IDENTIFIER:                | <b>BLACK HAWK</b>  |             |  |  |   |
| PRODUCT USE:                       | Solvent Degreaser  |             |  |  |   |
| SUPPLIER:                          | Velocity Chemicals Ltd.<br>Unit #1, 9515- 190 <sup>th</sup> St.,<br>Surrey, B.C. V4N-3S1<br>Emergency Telephone: (604) 881-4700<br>Facsimile: (604) 881-4701 |             |  | In case of transportation emergency or product spill, contact:<br>In Canada-<br>CANUTEC @ 613-996-6666 (24 hrs.) |   |
| SECTION 2 – HAZARDOUS INGREDIENTS  |  |             |  |  |   |
| HAZARDOUS INGREDIENTS              | % (W/W)  | CAS NUMBER  | LD50   | LC50   | EXPOSURE LIMITS   |
| Kerosene                           | 70-90  | 8008-20-6   | >5 g/kg (oral,rat)<br>> 2g/kg (skin,rabbit)    | >2.5 g/m3<br>(inhal.,4hrs, rat)  | ACGIH= 200mg/m3 (TLV-TWA)   |
| Xylene (mixed isomers)             | 10-30  | 1330-20-7   | 3.5 g/kg (oral,rat)<br>>21.3g/kg (skin,rabbit) | 5000ppm<br>(inhal.,4hrs.,rat)  | ACGIH= 100ppm(TLV-TWA),<br>150ppm(STEL)<br>OSHA= 100ppm,435mg/m3(TWA),<br>150ppm,655mg/m3(STEL)<br>NIOSH-IDHL= 900ppm |
| Ethylene Glycol Monobutyl Ether    | 5-10   | 111-76-2    | 470mg/kg (oral,rat)<br>220mg/kg(skin,rabbit)   | 450ppm<br>(inhal.,4hrs, rat)   | OSHA(PEL)= 50ppm,skin<br>ACGIH(TWA)= 20ppm,skin<br>NIOSH-IDHL= 700ppm   |
| Ethoxylated Nonylphenol            | 5-10   | 127087-87-0 | Not available                                  | Not available  | Not established   |
| Ethylbenzene                       | 1-5  | 100-41-4    | 3.5g/kg(oral,rat)                              | Not available  | ACGIH=100ppm(TLV-TWA),<br>125ppm(STEL)<br>NIOSH-IDHL= 800ppm  |
| SECTION 3 – PHYSICAL DATA          |  |             |  |  |   |

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| <p><b>Physical state:</b> liquid</p> <p><b>Solubility:</b> dispersible in water</p> <p><b>Odour and Appearance:</b> clear, slightly amber liquid with aromatic odor</p> <p><b>pH (100%) @ 20°C:</b> Not applicable</p> <p><b>Specific Gravity @ 20°C:</b> 0.815</p> <p><b>Odour Threshold (ppm):</b> not established</p> | <p><b>Vapour Density:</b> not determined</p> <p><b>Vapour Pressure:</b> not determined</p> <p><b>Evaporation Rate:</b> not determined</p> <p><b>Boiling Point (°C):</b> not determined</p> <p><b>Freezing Point (°C):</b> not determined</p> <p><b>Coefficient of water/oil distribution:</b> &lt; 1.0</p> |
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**BLACK HAWK**

**SECTION 4 – FIRE AND EXPLOSION DATA**

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| <p><b>Flammability:</b> Yes, combustible under WHMIS B3</p> <p><b>If yes, under what condition:</b> heat, open flames, sparks and other ignition sources</p> <p><b>Means of Extinction:</b> Dry chemical, alcohol foam, CO<sub>2</sub>, water spray. Use extinguishing media suitable for surrounding fires.</p> <p><b>Special Fire Fighting Procedures:</b> Wear NIOSH/OSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.</p> <p><b>Explosion Data-</b></p> <p><b>Sensitivity to impact:</b> None</p> <p><b>Sensitivity to static discharge:</b> None</p> | <p><b>Flash Point (°C) and method:</b> 41°C (PMCC)</p> <p><b>Upper Flammable limit (% volume):</b> not applicable</p> <p><b>Lower Flammable limit (% volume):</b> not applicable</p> <p><b>Autoignition temperature (°C):</b> not applicable</p> <p><b>Hazardous combustion products:</b> carbon oxides, and other toxic organic vapours.</p> |
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**SECTION 5 – REACTIVITY DATA**

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| <p><b>Chemical Stability:</b> yes, stable under normal storage conditions</p> <p><b>If no, under what conditions:</b></p> <p><b>Incompatibility with other substances:</b> yes</p> <p><b>If so, under what conditions:</b> strong oxidizers</p> <p><b>Reactivity, and under what conditions:</b> none known</p> <p><b>Hazardous Decomposition Products:</b> carbon oxides upon thermal decomposition.</p> |
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**SECTION 6 – TOXICOLOGICAL PROPERTIES**

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| <p><b>Primary route of entry:</b> skin and eye contact, inhalation</p> <p><b>Effects of Acute Exposure to Product:</b> Product exposure can cause irritation to skin and eyes. Inhaling mist or vapors may cause irritation, discomfort to respiratory system and central nervous system(CNS) effects. Symptoms may include headaches, loss of coordination, nausea, etc. Also, may be harmful if absorbed through skin.</p> <p><b>Effects of Chronic Exposure to Product:</b> Prolonged exposure may cause skin dermatitis and long term CNS effects. May also cause blood, kidney and liver disorders through repeated exposure of Ethylene glycol Monobutyl ether (based on animal test data).</p> |
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| <p><b>Exposure Limits:</b> see Section 2 under Hazardous Ingredients</p> <p><b>Irritancy of Product:</b> may be irritating to skin, eyes and respiratory system.</p> <p><b>Sensitization:</b> none known</p> <p><b>Reproductive Toxicity:</b> none known</p> | <p><b>Mutagenicity:</b> none known</p> <p><b>Carcinogenicity:</b> glycol ether monobutyl ether and xylene are classified as Group 3 (Unclassifiable as to carcinogenicity in humans) under IARC, A3 (confirmed animal carcinogen with unknown relevance to humans) under ACGIH and A4 (Not Classifiable as Human Carcinogen), respectively.</p> <p>Ethylbenzene is classified as Group 2B (Possibly carcinogenic to humans).</p> <p><b>Teratogenicity:</b> none known</p> <p><b>Synergistic Products:</b> none known</p> |
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## BLACK HAWK

### SECTION 7 – PREVENTATIVE MEASURES

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| <p><b>Respiratory Protection:</b> Use a NIOSH/OSHA approved for mist/dust and organic vapor respirator if mists or vapors are present.</p> <p><b>Gloves:</b> nitrile or viton</p> <p><b>Eye Protection:</b> splash proof chemical goggles or face shield.</p> | <p><b>Footwear:</b> boots</p> <p><b>Clothing:</b> long sleeve coveralls</p> <p><b>Other:</b> Nitrile or viton apron</p> |
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**Engineering Controls:** General ventilation for normal operating conditions or local exhaust for confined areas.

**Leak and Spill Procedures:** Wear protective equipment. Extinguish all nearby ignition sources. Contain spill. Prevent runoff to drains or sewers. Recover material by vacuum or pump into a suitable flammable waste container. Soak up residue with suitable absorbent, and then dispose of into a flammable waste container. Reuse material if possible, or otherwise dispose of in accordance with local regulations.

**Waste Disposal:** Dispose of in accordance with local environmental regulations.

**Handling Procedures and Equipment:** Use good hygiene practices. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation. Use proper grounding procedures when handling. Empty container may contain flammable residues/vapors. Do not cut, puncture, or weld near empty container. Eye wash station should be available in the immediate work area.

**Storage Requirements:** Store in a cool, dry place away from all nearby ignition sources and incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep storage temperature between 4°C to 30°C.

**Special Shipping Information:**

WHMIS Classification: B3, D2A, D2B

TDG Classification: Flammable Liquid, N.O.S. (Kerosene Mixture), Class 3, UN 1993, P.G. III. (Bulk &gt; 450L)

TDG Classification: Not Regulated (exempt for package less than 450L)

**SECTION 8 – FIRST AID MEASURES**

**Inhalation:** Remove victim to fresh air, apply artificial respiration if necessary. Seek medical help.  
**Ingestion:** Give large amounts of water if conscious. Do not induce vomiting. Get medical help immediately.  
**Skin Contact:** Wash thoroughly with water for 15 minutes. If irritation persists, seek medical attention.  
**Eye Contact:** Flush immediately with water for 15-20 minutes. Seek medical help.

**SECTION 9 - OTHER INFORMATION**

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SUPERCEDES: December 14, 2007

PREPARED BY: Technical Department (Customer Service phone number: 604-881-4700)

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