

## GHS SAFETY DATA SHEET 'BULLDOGG'

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... BULLDOGG  
 Chemical Use..... Industrial Degreaser  
 Chemical Family..... Mixture  
 Issue Date of SDS..... April 30, 2014

**MANUFACTURER:**

**Vapor Technologies, Inc.**  
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### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

<u>Health</u>		<u>Environmental</u>	<u>Physical</u>
Skin Corrosion:	Category 3	Acute Toxicity:	None Known
Acute Toxicity - Oral:	Category 4	( Aquatic Environment)	
Acute Toxicity - Dermal:	Category 4		
Acute Toxicity - Inhalation:	Category 5		
Eye Damage:	Category 2B		

**GHS LABEL:**


GHS07 Irritant

**SIGNAL WORD:**

**WARNING**

**Hazard Statements**

H302: Harmful if swallowed.  
 H312: Harmful in contact with skin.  
 H316: Causes mild skin irritation.  
 H320: Causes eye irritation.  
 H333: May be harmful if inhaled.  
 H402: Harmful to aquatic life.

**Precautionary Statements**

P264: Wash hands thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P312: If Swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330: Rinse mouth.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P363: Wash contaminated clothing before reuse.  
 P501: Dispose of contents/container in accordance with local/regional/national/  
 international regulations.

	<u>NFPA</u>
Health	1
Flammability	0
Reactivity	0
Special Notice	-

<u>HMIS</u>		
1	Health	0 - Minimal
0	Flammability	1 - Slight
0	Physical Hazard	2 - Moderate
B	PPE	3 - Serious
		4 - Severe
		B - Safety Glasses & Gloves

INGREDIENTS	CAS#	CONCENTRATION
D-Limonene	5989-27-5	7 - 9%
Non-Ionic Surfactant	9813-10-1	8 - 12%

**SECTION 4 - FIRST AID MEASURES**

Eye Contact..... Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

Skin Contact..... Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Inhalation..... Prolonged or repeated exposure may cause irritation. Get medical attention if cough or other symptoms develop.

Ingestion..... DO NOT INDUCE VOMITING! Drink one or two glasses of water and get medical attention immediately!

**SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media: ..... Use foam, carbon dioxide, or water spray to extinguish flames.

Unsuitable Extinguishing Media:..... No further relevant information available.

Combustion Products: ..... Not considered to be an explosion hazard.

Fire Fighting Instructions..... As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

**SECTION 6 - ACCIDENTAL RELEASE MEASURE**

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.

Environmental Precautions..... Prevent entry of product into drains, sewers, or surface or ground water.

Methods for Cleaning Up:..... Clean up spills immediately. Absorb spill with inert material (e.g., dry sand or earth), then place in a suitable container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Handling:..... Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing and eye protection when handling this product. Use in well ventilated areas.

Storage..... Store in cool place in original container and keep away from direct sunlight. Keep container closed when not in use. Do not store with aluminum or magnesium.

Shelf-Life..... One to two years normally.

Storage Temperature..... 5 - 43°C (41 - 110°F)

**SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION**

EXPOSURE LIMITS:	Component	ACGIH (TLV)	ACGIH (STEL)	OSHA (PEL)
	D-Limonene	Not Known	Not Known	Not Known
	Non-Ionic Surfactant	Not Known	Not Known	Not Known

Engineering Controls..... Good general ventilation should be sufficient to control airborne levels.

**Personal Protective Equipment (PPE):**

Eye Protection..... Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

Skin Protection..... Wear chemical resistant gloves.

Respiratory Protection..... For most situations, no respiratory protection is necessary.

General Hygiene Consideration..... There are no known health hazards associated with this product when used as recommended.

The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits..... Not established for product as whole.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

Appearance..... Clear purple liquid.

Odor..... Light citrus odor.

Vapor Pressure..... Not Determined.

Odor Threshold..... Not Determined.

Vapor density..... Not Determined.

pH..... 11 - 11.7

Relative Density..... Not Determined.

Melting point/Freezing point:..... Not Determined / 30°F

Solubility in water..... 100%

Initial boiling point and range..... 220°F / Not Determined.

Flash Point..... Not Determined.

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Determined.

Upper/Lower flammability or explosive limits:..... Product is not self igniting.

Partition coefficient..... Not Determined.

Auto igniting temperature..... Product is not self igniting.  
 Decomposition temperature..... Not Determined.  
 Viscosity..... Not Determined.  
 Specific Gravity (water = 1)..... 1.04

**SECTION 10 - STABILITY & REACTIVITY**

Reactivity..... No dangerous reaction known under conditions of normal use.  
 Chemical Stability..... Stable.  
 Hazardous Polymerization..... Will not occur.  
 Incompatibilities..... May etch aluminum and zinc.  
 Decomposition Products..... None determined.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:**..... Inhalation, Eye and Skin Contact

**Acute symptoms and effects:**

Eye..... Causes irritation of eyes. Rinse cautiously with water for several minutes.  
 Skin..... Contact on skin may cause irritation. Wash with plenty of soap and water.  
 Ingestion..... Harmful if swallowed. Rinse mouth with water. Call POISON CENTER or doctor/physician if you feel unwell.  
 Inhalation:..... May be harmful if inhaled. Call a POISON CENTER or doctor/physician if you feel unwell.

Chronic Exposure:..... Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Toxicity:**                    **LD50**                    **LC50**  
    Not Known            Not Known  
**Carcinogenicity:**..... Not a known carcinogen

**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity:..... Harmful to aquatic life. Product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.  
 Mobility in soil:..... No further relevant information available.  
 Degradability:..... Expected to readily biodegrade.  
 Bioaccumulation:..... No further relevant information available.

**SECTION 13 - DISPOSAL CONSIDERATION**

**BULLDOGG** is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local authorities regarding the proper disposal of this material.

(Note: Adding chemicals, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate).

**SECTION 14 - TRANSPORTATION INFORMATION**

**A. USA:**    **UN Number**..... Not Regulated.  
                  **UN Proper Shipping Name**..... Not Regulated.  
                  **Packaging group**..... Not Regulated.  
                  **Technical Shipping Name**..... Liquid detergent, Non-Haz.  
                  **D.O.T. Label**..... Not Regulated.  
                  **D.O.T. Placard**..... Not Regulated.  
                  **Freight Class Package**..... Class 55

**B. CANADA:**    **TDG**..... Not Regulated.

**C. ENGLAND:**    **Approved Carriage List**..... Not Regulated.

**SECTION 15 - REGULATORY INFORMATION**

**A. USA:**    **TSCA Status**..... All ingredients listed on TSCA Inventory.  
                  **SARA TITLE III, 302/303 EHS**..... None  
                  **SARA TITLE III, 304 HS**..... None  
                  **SARA TITLE III, 311/312**..... None  
                  **SARA TITLE III, 313**..... None

**B. CANADA:**    **DSL/NDSL**..... All ingredients are listed.  
                  **WHMIS**..... Not Classified.

**C. EC:**        **EINECS**..... All ingredients are listed.

**SECTION 16 - OTHER INFORMATION**

For details on specific requirements, you should contact the appropriate agency in your state.

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