



DATASHEET

BULLDOGG

DESCRIPTION:

Highly biodegradable industrial degreaser. This product is comprised of citrus solvents, surfactants and other ingredients which dissolve oils and greases. This product has been used to clean oily and waxy residues left in tanks such as #6 oil, tar, creosote, and even some resins. BULLDOGG is ideal for light residues on tank walls or for decontamination of equipment. When mixed with steam this product becomes much more powerful as the solvents are 'supercharged'. Extremely biodegradable formula. Product has excellent citrus fragrance.

PRODUCT USES & APPLICATIONS

- Tank Cleaning
- Equipment Decontamination
- Substance Removal

APPLICATION INSTRUCTIONS

Dilution Rate	Up to 10:1 with water
Application Methods	Spray System, 3D Nozzles, Spinner
Special Instructions	None

Additional Instructions: Allow product to soak into set-up substances for as long as possible. Rinse with warm/hot water to remove product more easily.

HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 122°
Biodegradability	Excellent
pH	11-11.7
Unusual Hazards	May soften rubber

PACKAGING INFORMATION

Available Quantities	5,3,55,275 and bulk
Packaging Material	Poly

CASE STUDY & APPLICATION INFO:

2012: Refinery

Texas City, TX

Bulldogg was used to treat a tank which had oily residues on the tank walls, roof and floor. Customer used water cannon to spray diluted Bulldogg at 6:1 with water on all of the surfaces of the tank. This solution was allowed to soak for 18 hours. They then came back and rinsed the tank with water to remove all of the residues and Bulldogg. The tank was clean after one application and was prepped for the inspection which it passed.

2009: Chemical Facility

Baytown, TX

Bulldogg was used to treat heavy oil residues in a pipeline. The customer used a 4:1 with water due to the nature of the residue. The line was pigged and came out very clean after the one application.

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
 Revision Date of SDS..... 1/31/2022

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

MANUFACTURER:

Vapor Technologies, Inc.
 7200 Williams Street
 Hitchcock, TX 77563
 (409) 316-0173
www.vapor-tech.net

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NON-HAZARDOUS

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Skin Corrosion: Category 3	Acute Toxicity: Category 3 (Aquatic Environment)	None Known
Acute Toxicity - Oral: Category 4		
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
	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.

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.

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/NDL**..... 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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Approval Date: 1/31/2022