



HEAVY DUTY FOAMING ENGINE DEGREASER

MATERIAL SAFETY DATA SHEET

SECTION 1-CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: HD FOAMING ENGINE DEGREASER
CAS NUMBER: MIXTURE
Description: CLEANER
Manufacturer: QUALITY AEROSOLS
313 Bell Park Drive
Woodstock, Georgia 30188

EMERGENCY TELEPHONE: CHEMTREC 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

General Assistance: 1-877-320-4747

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS #	% by Weight
2-Butoxyethanol	111-76-2	<5%
Propane	74-98-6	<5%
Butane	106-97-8	<5%

Refer to Section 8 for exposure limits and recommendations.

SECTION 3- HAZARDS IDENTIFICATION

Emergency Overview: Product is non-flammable. Pressurized container may explode when exposed to heat or flame. Contact may cause skin and eye irritation. Mist may cause nose and throat irritation. Ingestion may cause nausea, vomiting, pain, upset stomach, and diarrhea.

Potential health effects: **Skin Contact:** This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin. **Eye Contact:** Liquid or vapors may irritate the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly. **Ingestion:** This product is harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. **Target Organs:** Central Nervous System, lungs, skin, eyes. **Inhalation:** This product may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heart beats. See Section 8 for recommended exposure limits.

SECTION 4- FIRST AID MEASURES

Skin: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention. **Eye:** Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately. **Inhalation:** Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Call a physician if symptoms develop or persist. **Ingestion:** If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek immediate medical attention. Do not give anything.

SECTION 5- FIRE FIGHTING MEASURES

Extinguishing Media: Use dry chemical, carbon dioxide, or foam. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity. **Basic Fire Fighting Procedures:** Dangerous when exposed to heat or flame. This material can be ignited by flame or spark under normal atmospheric condition. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Pressurized Container: May explode when exposed to heat or flame. Empty containers may retain product residue including Flammable or Explosive vapors. DO NOT cut, drill, grind, or weld near full, partially full, or empty product containers. **Dust Explosion Hazard:** None known. **Sensitivity To Mechanical Impact:** Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors. **Unusual Fire & Explosion Hazards:** During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water. **Fire Fighting Equipment/Instructions:** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Flash Point: concentrate: N/A

propellant: -132.23 F

Flammability limits in air: N/A upper % by volume concentrate
9.5 upper % by volume propellant

N/A lower % by volume concentrate
1.8 lower % by volume propellant

SECTION 6- ACCIDENTAL RELEASE MEASURES

Emergency Action: Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. Wear appropriate protective equipment and clothing during clean-up. **Containment:** Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with non-flammable absorbent and place in closed chemical waste containers.

SECTION 7- HANDLING & STORAGE

Handling: Keep this product away from heat, sparks or open flame. Avoid getting this material into contact with your skin and eyes. Avoid breathing mists or aerosols of this product. Use this product with adequate ventilation. Do not reuse the empty container. **Storage:** Store in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of direct sunlight. Do not store above 120F (49 C). **Empty Container Precautions:** Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. **Eye Protection:** Wear goggles or safety glasses with side shields. **Skin and Body Protection:** Impervious gloves should be used when handling this product. Use of protective coveralls and long sleeves is recommended. **Respiratory Protection:** Use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA). **General:** Use good hygiene practices in handling this material.

Exposure Limits: Component(s)	(PARTS PER MILLION)					VOC
	TLV	OSHA-PEL	OSHA-STEL	SARA 313	Prop 65	
2-Butoxyethanol	20ppm	50ppm		X		X
Propane	1000ppm					X
Butane	1000ppm					X

Other raw material is considered trade secret.

SECTION 9- PHYSICAL & CHEMICAL PROPERTIES

Solids: N/A	Evaporation Rate: >1 (butyl acetate=1)
PH: N/A	Boiling Point: N/A
Specific Gravity: 0.996	Color: Hazy
Physical State: Liquid	Odor: Pine
%VOC: 10%	

SECTION 10-STABILITY & REACTIVITY

Hazardous polymerization will not occur. Condition to avoid: Keep away from sources of ignition. Avoid contact with strong oxidizers, reducers, acids, and alkalis. Stability: This product is stable under normal conditions.

SECTION 11-TOXICOLOGICAL INFORMATION

2-Butoxyethanol: Oral LD50: >500-2000 mg/kg (guinea pig)
Dermal LD50: >2000 mg/kg (guinea pig)
Propane: Inhalation LC50: 658 mg/L/4H (rat)
Butane: Inhalation LC50: 658 mg/L/4H (rat)

SECTION 12-ECOLOGICAL INFORMATION

No information available

SECTION 13-DISPOSAL CONSIDERATIONS

We make no guarantee of warranty of any kind that the use of and/or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

Waste Disposal: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

SECTION 14-TRANSPORTATION INFORMATION

Ground Transportation: (Continental United States, Canada & Mexico): Consumer Commodity ORM-D

Ocean: UN 1950 Class 2.2 Aerosols, Limited Quantity

Air: We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

SECTION 15- REGULATORY INFORMATION

2-Butoxyethanol: TSCA Inventory
SARA 311/312: Acute Health Hazard
Fire Hazard

Propane: TSCA Inventory

Butane: TSCA Inventory

SECTION 16-Other Information

	H.M.I.S
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

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exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all direction and warnings on the label be read and understood.