



Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name: B-33 Engine Degreaser
Product Synonyms: AED
Product Number: 1133
Product Description: Engine compartment cleaner/degreaser

Manufacturer: Berryman Products, Inc.
3800 E Randol Mill Rd.
Arlington TX 76011
(800) 433-1704 within USA
(817) 640-2376 outside USA
www.BerrymanProducts.com

Emergency Contact: Infotrac, Inc., (800) 535-5053

Section 2 – Hazards Identification

Emergency Overview: Contents under pressure. May cause eye and skin irritation.

Routes of Exposure: Ingestion, eye contact, skin contact

Possible Health Hazards

Eyes: May cause moderate to severe irritation of the eyes and result in conjunctivitis.

Skin: May cause mild to moderate irritation of the skin. Prolonged or repeated contact may dry the skin and result in severe irritation and dermatitis.

Inhalation: Inhalation of mist may be mildly irritating to the respiratory tract.

Ingestion: Accidental ingestion of small quantities is not expected to result in adverse effects. Ingestion of larger amounts may include temporary gastrointestinal effects, including abdominal discomfort, pain, and nausea.

Supplemental Information: See “Section 11 – Toxicological Information” for additional information.

Section 3 – Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS Number</u>	<u>Weight</u>
Alcohol Ethoxylate	34398-01-1	1 - 5%
Alkylbenzenesulfonic Acid	68584-22-5	1 - 5%
Triethanolamine	102-71-6	1 - 5%
Water	7732-18-5	90-95%

Section 4 – First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, holding the eyelids apart at regular intervals to ensure complete irrigation. Dispose of contaminated contact lenses.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash affected areas thoroughly with soap and water. Seek medical attention if irritation persists.

Inhalation: If breathing difficulties occur, remove source of exposure or move victim to fresh air. Seek medical attention immediately if symptoms persist.

Ingestion: Do *not* induce vomiting unless otherwise directed by a medical professional. Dilute stomach contents by drinking 1-2 cups of fruit juice or water. Seek medical attention immediately.

Section 5 – Firefighting Measures

Flash Point and Method: None by Setaflash closed-cup tester

Flammability Limits (composite): Lower – N/A Upper – N/A

Suitable Extinguishing Media: All, including water fog, foam, dry chemical, and carbon dioxide

Unsuitable Extinguishing Media: N/A

Protective Equipment: Employ SBCA and full protective gear, including shield, as product is self-pressurized and may vent, rupture, or explode violently at elevated temperatures.

Specific Procedures: Product will not support combustion but may present explosion hazards at elevated temperatures. Use water spray to cool nearby containers.

Section 6 – Accidental Release Measures

General Remediation Overview: Eye and skin irritant.

Personal Precautions: Avoid unnecessary contact with product.

Environmental Precautions: Prevent further loss of product if safely possible.

Methods for Containment: Use booms or other barriers as necessary to prevent further loss.

Methods for Cleaning Up: For small spills, mop up or absorb with inert material, such as corn cob, cellulose, or vermiculite. For large spills, pump or transfer material into containers for recovery and use absorbent material for collection of unrecoverable product.

Section 7 – Handling and Storage

Handling: Avoid contact with skin and eyes. Wash hands thoroughly after use.

Storage: Store in cool, dry location. Do not leave in direct sunlight inside of vehicle.

Section 8 – Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>Exposure Limit</u>	<u>Source</u>
Alcohol Ethoxylate	NE	N/A
Alkylbenzenesulfonic Acid	NE	N/A
Triethanolamine	NE	N/A
Water	NE	N/A

Engineering Controls: Use outside with adequate ventilation to minimize exposure.

Respiratory Protection: Not required under normal conditions.

Eye Protection: Use of safety goggles or glasses with wrap-around lens or goggles is recommended.

Skin Protection: Employment of impermeable gloves is recommended.

Other Protection: For industrial settings, combination safety shower with eye wash station is recommended.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, light amber

Odor: Mild, negligible

Freezing Point: 32°F (approximate)

Boiling Point: 212°F (approximate)

Flash Point: None by Setaflash closed-cup tester

Specific Gravity: 1.015-1.020 at 68°F

pH: 9.5-9.9, as supplied

Solubility in Water: Infinite

Volatile Content: 90 - 95%

Evaporation Rate: Same as water

Vapor Pressure: 100-120 PSI at 68°F

Vapor Density: Heavier than air

VOC Content: 0% by weight (0 g/L) (by EPA Method 24 and CARB Method 310)

VOC Composite Partial Pressure, PP_c: 0.0 mm Hg at 68°F (as calculated by SCAQMD Rule 1171(B)(57))

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions

Incompatible Materials: Acids, strong oxidizers

Hazardous Decomposition Products: None under normal conditions of use. Thermal decomposition may yield carbon monoxide, carbon dioxide, organic oxygenates, and oxides of nitrogen, silicon, and sulfur.

Possibility of Hazardous Reactions: Negligible

Section 11 – Toxicological Information

General Information: This formulated product has not been evaluated as supplied for toxicological properties. Acute toxicity is anticipated to be fairly low. Chronic toxicity is expected to be negligible.

Acute Toxicity: No specific data available on blend

Chronic Toxicity: No specific data available on blend

Carcinogenicity: N/A

Teratogenicity: N/A

Mutagenicity: N/A

Supplemental Information: See “Section 2 – Hazards Identification” of this MSDS for additional information.

Section 12 – Ecological Information

Ecotoxicity: This product is not anticipated to be ecologically influential in small amounts.

Persistence and Degradability: Not expected to be persistent. All primary ingredients have environmentally favorable biodegradation profiles.

Bioaccumulation Potential: None

Section 13 – Disposal Considerations

Disposal Instructions: None specific. Dispose of waste in accordance with applicable regulations.

Section 14 – Transportation Information

US Department of Transportation (DOT): In any size container shipped by ground, this product should bear the following shipping description[†]:

UN1950, Aerosols, non-flammable, 2.2

International Air Transportation Association (IATA): In any size container shipped by air, this product should bear the following shipping description[†]:

UN1950, Aerosols, non-flammable, 2.2

[†] May be eligible for “Limited Quantity” exemption. Consult applicable DOT regulations or IATA technical instructions.

Section 15 – Regulatory Information

FEDERAL CONSIDERATIONS

SARA Title III, Section 302 – Extremely Hazardous Substances: Neither this product nor any of its components appear on the list of extremely hazardous substances (EHS) found in §40 CFR 355 Appendices A and B and are not subject to the emergency planning (EPCRA) requirements of §40 CFR 355.30 or the reportable quantity (RQ) and threshold planning quantity (TPQ) requirements of §40 CFR 355 Appendices A and B.

SARA Title III, Section 304 – Hazardous Substances: This product does not contain any component found in the list of hazardous substances of §40 CFR Table 302.4.

SARA Title III, Sections 311/312 – Hazard Classes: This product contains one or more ingredients that are classified into the following hazard categories outlined in §40 CFR 370.40: sudden release of pressure; immediate (acute) health

SARA Title III, Section 313 – Toxic Chemicals: This product does not contain any toxic chemicals listed in §40 CFR 372.65 exceeding the *de minimis* concentration reporting requirements as stated in §40 CFR 372.38.

Section 15 – Regulatory Information (continued)

FEDERAL CONSIDERATIONS (continued)

Clean Air Act, Section 183(e) – Consumer and Commercial Products: This product complies with the National Volatile Organic Compound Emission Standards for Consumer Products regulations found in §70 FR 69759.

Toxic Substances Control Act (TSCA): All chemicals known to be present in this product are either listed on the TSCA inventory or are not required to be per §15 USC 2601 et seq.

Occupation Safety and Health Administration (OSHA): This material safety data sheet is provided for compliance with applicable regulations of the Hazard Communication Standard (HCS) found in §29 CFR 1910.1200(g). Federal law requires persons receiving this document to study it carefully and become aware of the hazards of this product. Notify all employees, visitors, agents, and contractors of the information on this sheet.

Consumer Product Safety Commission (CPSC): This product is regulated under the Federal Hazardous Substances Act, is subject to the labeling requirements of 16 CFR 1500, and must include the following cautionary statements: Caution. Contents under pressure. Keep out of the reach of children.

REGIONAL CONSIDERATIONS

Lake Michigan Air Directors Consortium (LADCO): Complies with category VOC requirement

Ozone Transport Commission (OTC): Complies with category VOC requirement

STATE CONSIDERATIONS

California: Complies with category VOC requirement

New Jersey: For Right-To-Know (“RTK”) labeling requirements, refer to “Section 3 – Composition / Information on Ingredients.”

Section 16 – Other Information

Hazardous Materials Identification System (HMIS)

HMIS Hazard Rating	HMIS Hazard Index
Health 1	Least - 0
Flammability 0	Slight - 1
Reactivity 0	Moderate - 2
Protective Equipment X	High - 3
	Extreme - 4

Index of Abbreviations

ACGIH – American Council of Governmental and Industrial Hygienists

MSHA – Mine Safety and Health Administration

N/A – not applicable

NE – not established

NIOSH – National Institute for Occupational Safety and Health

PEL – Permissible Exposure Limit (as required by OSHA)

TLV – Threshold Limit Value (as recommended by ACGIH)

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Revision Changes: Section 6 – Accidental Release Measures; Section 9 – Physical and Chemical Properties; and Section 14 – Transportation Information

Prepared By: Dan Nowlan

Legal Disclaimer: The information contained in this document is, to the best of Berryman Products, Inc.’s knowledge, complete and accurate but is not warranted. All materials may present unknown hazards and should be used with caution. It is the responsibility of the user to evaluate the information in a prudent manner and to use it in a manner consistent with its intended purpose. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.