



# Safety Data Sheet

## Section 1 – Identification of the Mixture and of the Company

### Product Identification

#### Primary Identifier(s) Used on the Label

Berryman *B-33 ENGINE DEGREASER*

#### Product Synonym(s)

blend "AED"

#### Product Number(s)

1133

### Relevant Identified Uses and Uses Advised Against

#### Recommended Uses

engine degreaser

#### Uses Advised Against

none specific

### Manufacturer/Supplier Details

Berryman Products, Inc.

3800 E Randol Mill Rd

Arlington, TX 76011

(800) 433-1704 (USA/Canada)

(817) 640-2376 (international)

www.BerrymanProducts.com

### Emergency 24-Hour Telephone Number(s) – InfoTrac, Inc.

(800) 535-5053 (USA/Canada)

(352) 323-3500 (international)

## Section 2 – Hazards Identification

### Classification of the Substance or Mixture (29 CFR 1910.1200)

#### Physical Hazards

Gases Under Pressure – Compressed Gas

#### Health Hazards

Eye Irritant – Category 2A

Environmental Hazard - Acute – Category 3

### Allocation of Label Elements

#### Chemical Identity

Berryman *B-33 ENGINE DEGREASER*

#### Pictograms



#### Signal Word

WARNING

#### Hazard Statements

H280 – Contains gas under pressure; may explode if heated.

H319 – Causes serious eye irritation.

H402 – Harmful to aquatic life.

**Prevention Precautionary Statements**

P101 – Keep out of reach of children.

P102 – Read label before use.

P251 – Pressurized container—do not pierce or burn, even after use.

P264 – Wash thoroughly after handling.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, and eye or face protection.

**Response Precautionary Statements**

P305/P351/P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337/P313 – If eye irritation persists, get medical advice/attention.

**Storage Precautionary Statements**

P410/P403 – Protect from sunlight. Store in a well-ventilated place.

**Disposal Precautionary Statements**

P501 – Dispose of contents/container in accordance with local, regional, national, and international regulations, as applicable.

**Hazards Not Otherwise Classified**

none known

**Ingredients of unknown acute toxicity**

none

**Section 3 – Composition/Information on Ingredients**

<u>Component</u>	<u>CAS RN</u>	<u>Weight</u>
Water	7732-18-5	85-90%
Alkylbenzenesulfonic Acid	27176-87-0	3-5%
Triethanolamine	102-71-6	3-5%
Linear Alcohol Ethoxylate	34398-01-1	1-3%
Dinitrogen	7727-37-9	1-2%

**Section 4 – First Aid Measures****Description of First Aid Measures****Ingestion**

Drink 1-2 glasses of milk or water. Call poison control center, hospital emergency room, or doctor if you feel unwell.

**Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

**Skin Contact**

Immediately take off all contaminated clothing. Rinse skin with water or shower.

**Inhalation**

Remove person to fresh air and keep comfortable. If experiencing respiratory symptoms or if breathing is difficult, administer oxygen and call poison control center, hospital emergency room, or doctor.

**Most Important Symptoms and Effects****Acute/Immediate**

none known

**Delayed**

drying, cracking, or defatting of the skin

**Indications of Need for Immediate Medical Attention and Specific Treatment Required****Indications of Need for Immediate Medical Attention**

none known

**Specific Treatment and Notes to Physician**

no additional information available

**Section 5 – Firefighting Measures****Fire Extinguishing Media****Support for Combustion**

Product does not support combustion, as-supplied.

**Suitable Extinguishing Media**

water spray, water fog, dry chemical, alcohol-resistant foam, or carbon dioxide

**Unsuitable Extinguishing Media**

none known

**Special Hazards/Considerations****Combustion Products**

Combustion in the presence of air may yield hydrocarbons; organic oxygenates and sulfides; ammonia and amino compounds, mercaptans; and oxides of carbon, nitrogen and sulfur.

**Special Protective Equipment and Precautions for Firefighters****Special Protective Equipment**

Firefighters should employ SCBA and full protective gear, including shield, as product may vent, rupture, or explode violently at elevated temperatures.

**Precautions and Procedures**

Contains gas under pressure; may explode if heated. Vapors heavier than air. Remove product from area if safe to do so. Use water spray to cool nearby containers.

**Section 6 – Accidental Release Measures****Personal and Environmental Precautions****Personal Precautions**

Wash thoroughly after handling. Wear protective gloves, protective clothing, and eye or face protection.

**Environmental Precautions**

Avoid release to the environment. Prevent contamination of ground water.

**Materials and Methods for Containment****Small Spills**

Use socks/absorbent mini-booms or other inert barrier if necessary to contain small spills.

**Large Spills**

Utilize large socks/absorbent booms or other inert barrier to form dam/dike in order to contain spill and prevent further loss.

**Materials and Methods for Cleanup****Small Spills**

Remove source from area if safe to do so. Use granular sorbent, gel sorbent, vermiculite, cat litter, dirt/earth, pads/rolls, or pillows to absorb spilled material. Other useful supplies may include a mop and mop bucket. Remediate affected area as necessary.

**Large Spills**

Remove source from area if safe to do so. Use a mop and mop bucket or mechanical transfer equipment to recover spilled material. Use granular sorbent, gel sorbent, vermiculite, cat litter, dirt/earth, pads/rolls, or pillows to absorb residual material. Remediate affected area as necessary.

**Section 7 – Handling and Storage****Precautions for Safe Handling****Personal Precautions**

Wear protective gloves, protective clothing, and eye or face protection. Wash thoroughly after handling.

**Environmental Precautions**

Do not pierce or burn, even after use. Avoid release to the environment.

**Conditions and Considerations for Safe Storage**

Contains gas under pressure; may explode if heated. Protect from sunlight. Store in a well-ventilated place. Store locked-up. Store according to NFPA Aerosol Level 1 recommendations.

**Section 8 – Exposure Controls/Personal Protection**

<u>Component</u>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Triethanolamine	102-71-6	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

**Exposure Controls****Appropriate Engineering Controls**

If practical, use outside with adequate ventilation to minimize exposure.

**PPE Overview****Hand Protection**

Use of chemical-resistant gloves (butyl rubber, EVAL, neoprene, nitrile/Buna-N, PVC, or Viton) is recommended.

**Eye Protection**

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

**Respiratory Protection**

If necessary, use respiratory protection sufficient to reduce exposure to permissible limits.

**Additional Protection**

For industrial settings, access to a chemical safety shower with eye wash station is strongly recommended.

## Section 9 – Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

#### Physical State

liquid

#### Appearance

clear, colorless to very light yellow

#### Odor

practically odorless

#### Odor Threshold

not available

#### pH

9.5 - 9.9

#### Freezing Point

25 - 30°F

#### Boiling Range

212 - 600°F

#### Flash Point and Method

none by closed-cup tester

#### Explosion Limits in Air

not expected

#### Evaporation Rate

0.3 (n-Butyl Acetate=1.0)

#### Vapor Pressure, as supplied

80 - 120 PSI (typical)

#### Vapor Density

<1.0

#### Specific Gravity

1.020 at 68°F

#### Density

8.50 lb/gal at 68°F

#### Water Solubility

completely soluble

#### n-Octanol/Water Partition Coefficient (log P<sub>ow</sub>)

<-1.0 (composite)

#### Viscosity

1 - 2 cSt at 68°F

#### Volatility

85 - 90% by weight

#### Auto-ignition temperature

not expected

#### Decomposition temperature

unknown

### Other Information

#### VOC Content

0% by weight (EPA Method 24)

0% by weight (consumer products)

#### VOC Composite Partial Pressure, PPC

0.0 mm of Hg at 68°F

## Section 10 – Stability and Reactivity

### Chemical Stability under Normal Conditions of Use

#### Chemical Stability

Stable under normal conditions of use.

#### Conditions Affording Instability

none known

### Reactivity

not expected

### Possibility of Hazardous Reactions

none known

### Conditions to Avoid

Avoid direct sunlight and excessive temperatures. Do not puncture, incinerate, or crush.

### Incompatible Materials

strong acids; oxidizers; reducing agents; metallic aluminum; and powdered zinc, aluminum, magnesium, potassium, and sodium

### Hazardous Decomposition Products

none known

## Section 11 – Toxicological Information

### Likely Routes of Exposure

ingestion, skin contact, eye contact,

### Symptoms Related to Physical, Chemical, and Toxicological Characteristics

#### Ingestion

##### **Large Quantity**

gastrointestinal disturbances, including upset stomach, cramping, nausea, vomiting, and diarrhea

##### **Small Quantity/Incidental Contact**

virtually nontoxic after single ingestion of small quantity

#### Skin Contact

virtually nontoxic after single skin contact

#### Eye Contact

severe eye irritation

#### Inhalation

virtually nontoxic by short-term inhalation

### Immediate, Delayed, and Chronic Effects

#### *SHORT-TERM EXPOSURE*

#### Potential Immediate Effects

##### **Ingestion**

none known

##### **Skin Contact**

none known

##### **Eye Contact**

none known

##### **Inhalation**

none known

#### Potential Delayed Effects

##### **Ingestion**

none known

##### **Skin Contact**

none known

##### **Eye Contact**

none known

##### **Inhalation**

none known

#### *LONG-TERM EXPOSURE*

#### Potential Immediate Effects

none known

#### Potential Delayed Effects

none known

#### Potential Chronic Health Effects

##### **Carcinogenicity**

International Agency for Research on Cancer (IARC) Monographs

all components either “Group 3 – Not Classifiable as to Human Carcinogenicity” or not listed

National Toxicology Program (NTP) Report on Carcinogens

not listed

Occupational Safety & Health Administration (OSHA)

not listed

##### **Mutagenicity / Genetic Toxicity**

not suspected of being a human mutagen / genetic toxicant

##### **Teratogenicity**

not suspected of being a human teratogen

**Developmental Effects**

not suspected of being a developmental toxicant

**Fertility Effects**

not suspected of being a reproductive/fertility toxicant

**Effects on Lactation**

not suspected of affecting lactation

***SPECIFIC TARGET ORGAN TOXICITY (STOT)***

**Single Exposure**

none known

**Repeated Exposure**

none known

**Numerical Measures of Acute Toxicity**

**Oral (Rat)**

LD<sub>50</sub>: >5000 mg/kg (derived)

**Dermal (Rabbit)**

LD<sub>50</sub>: >5000 mg/kg (derived)

**Inhalation (Rat)**

LC<sub>50</sub>: >50 mg/L (derived)

**Additional Toxicological Information**

**Skin Irritation/Corrosion (Rabbit)**

not irritating to skin

**Serious Eye Damage/Irritation (Rabbit)**

severe eye irritant

**Respiratory Sensitization**

does not cause respiratory sensitization

**Skin Sensitization**

does not cause skin sensitization

**Aspiration Hazard**

not an aspiration hazard

## **Section 12 – Ecological Information**

**General Ecological Assessment/Overview**

Harmful to aquatic life. Very mobile in soils which may lead to contamination of groundwater.

**Aquatic Toxicity**

**Vertebrates (Fish)**

**Acute Toxicity**

LC<sub>50</sub>: 42 mg/L (derived)

**Chronic Toxicity**

NOEC: not available

**Invertebrates (Water Flea)**

**Acute Toxicity**

LC<sub>50</sub>: 66 mg/L (derived)

**Chronic Toxicity**

NOEC: not available

**Aquatic Plants (Freshwater Algae)**

**Acute Toxicity**

EC<sub>50</sub>: 88 mg/L (derived)

**Chronic Toxicity**

NOEC: not available

**Terrestrial Toxicity**

**Invertebrate (Earthworm)**

LC<sub>50</sub>: >100 mg/L (derived)

**Persistence and Degradability**

**Persistence**

not expected to be persistent

**Degradability**

rapidly degradable

#### Bioaccumulative Potential

##### Bioaccumulation Potential Assessment

does not bioaccumulate

##### Bioaccumulation Factor

not available

#### Mobility in Soils

##### Mobility in Soils Assessment

very mobile in soils—may contaminate groundwater

##### Soil Organic Carbon/Water Partition Coefficient (log K<sub>oc</sub>)

not available

#### Results of PBT and vPvB Assessment

not a persistent, bioaccumulative, toxic chemical (PBT)

not very persistent or very bioaccumulative (vPvB)

#### Other Adverse Effects

none known

## Section 13 – Disposal Considerations

#### General Assessment/Overview

Dispose of waste in accordance with all applicable regulations. Harmful to aquatic life—do not pour into waterways.

#### RCRA Hazardous Waste Code(s) (40 CFR 261.20-33)

Based on this material as-supplied, used or unwanted product may not be regulated as RCRA hazardous waste based on composition, reactivity, and flammability characteristics.

## Section 14 – Transportation Information

#### Transportation by Ground – US Department of Transportation

##### Shipping Description

UN1950, Aerosols, 2.2

##### Exemption Eligibility

When shipped by ground, this product may be eligible for a “Limited Quantity” exception per §49 CFR 173.306.

#### Transportation by Air – ICAO/IATA

##### Shipping Description

UN1950, Aerosols, 2.2

##### Exemption Eligibility

When shipped by air, this product may be eligible for a “Limited Quantity” exception.

#### Transportation by Water – IMO/IMDG

##### Shipping Description

UN1950, Aerosols, 2.2

##### Exemption Eligibility

When shipped by water, this product may be eligible for a “Limited Quantity” exception.

## Section 15 – Regulatory Information

#### Safety, Health, and Environmental Regulations/Legislation

##### *UNITED STATES – SELECT FEDERAL REGULATIONS*

##### Environmental Protection Agency (EPA)

Toxic Substances Control Act (TSCA) (15 USC 2601, et seq.)

All chemicals known to be present in this product are either listed on the TSCA inventory or are not required to be.

SARA Title III (42 USC 9601, et seq.)

Section 302 – Extremely Hazardous Substances (40 CFR 355)

none

Section 304 – Emergency Release Notification (40 CFR 302.4)

none

Section 311/312 – Hazard Categorization (40 CFR 370.40)

acute toxicity, sudden release of pressure

Section 313 – Toxic Chemicals (40 CFR 372.65)

none

Clean Air Act (42 USC 7401, et seq.)

Section 112 – Hazardous Air Pollutants

none

Section 183(e) – Commercial and Consumer Products – VOC Limit and Category (40 CFR 59 subpart C)

not regulated

Occupational Safety & Health Administration (OSHA)

Hazard Communication Standard

This safety data sheet (SDS) is provided for compliance with applicable regulations of the Hazard Communication Standard of 2012 (HCS/HAZCOM 2012) found in §29 CFR 1910.1200. Federal law requires persons receiving this document to study it carefully, become aware of the hazards of this product, and notify all employees, visitors, agents, and contractors of the information contained herein.

Consumer Product Safety Commission

Federal Hazardous Substances Act

This product is regulated under the Federal Hazardous Substances Act, is subject to the labeling requirements of 16 CFR 1500, and must include at minimum the following cautionary statements: WARNING: Eye and skin irritant. Contents under pressure. Keep out of the reach of children.

*UNITED STATES – SELECT REGIONAL CONSIDERATIONS*

Ozone Transport Commission (OTC) – Model Rule VOC Limit and Category

10% as “Engine Degreaser, aerosol” (complies)

Lake Michigan Air Directors Consortium (LADCO) – Model Rule VOC Limit and Category

35% as “Engine Degreaser, aerosol” (complies)

*UNITED STATES – SELECT STATE REGULATIONS*

California

Office of Environmental Health Hazard Assessment (OEHHA)

Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65)

This product is not subject to the labeling requirements of Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986.

Air Resources Board (ARB/CARB)

Regulation for Reducing Emissions from Consumer Products – VOC Limit and Category

10% as “Engine Degreaser, aerosol” (complies)

Massachusetts

“Right-to-Know” Legislation – Substance List (105 CMR 670.000)

Dodecylbenzenesulfonic Acid, Triethanolamine, Nitrogen

New Jersey

“Right-to-Know” Legislation – Hazardous Substance List (34:5A-1, et seq.)

Dodecylbenzenesulfonic Acid, Triethanolamine, Nitrogen

Pennsylvania

“Right-to-Know” Legislation – Hazardous Substance List (Chapter 323)

Water, Alkylbenzenesulfonic Acid, 2,2',2''-Nitrilotris-ethanol, Nitrogen

*INTERNATIONAL – SELECT REGULATIONS*

Canada

Environment Canada – Domestic Substances List (DSL)

All chemicals known to be present in this product are either listed on the DSL or are not required to be.

China

Ministry of Environmental Protection – Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

All chemicals known to be present in this product are either listed on the IECSC or are not required to be.

European Union

European Chemical Agency – European Inventory of Existing Chemical Substances (EINECS)

All chemicals known to be present in this product are either listed on the EINECS or are not required to be.

**Chemical Safety Assessment**

has not been conducted on product, as-supplied

## Section 16 – Other Information

Hazardous Materials Information System (HMIS)

Health	2		<u>Hazard Index</u>
Flammability	0		Least - 0
Reactivity	0		Slight - 1
Protective Equipment	B		Moderate - 2
			High - 3
			Extreme - 4



## Index of Abbreviations

ACGIH – American Council of Governmental and Industrial Hygienists  
CAS RN – Chemical Abstracts Service Registry Number  
EC<sub>50</sub> – Median Effective Concentration  
IATA – International Air Transport Association  
ICAO – International Civil Aviation Organization  
IMDG – International Maritime Dangerous Goods  
IMO – International Maritime Organization  
LC<sub>50</sub> – Median Lethal Concentration  
LD<sub>50</sub> – Median Lethal Dose  
N/A – Not Applicable  
NE – Not Established  
NOEC – No Observable Exposure Concentration  
PEL – Permissible Exposure Limit (as required by OSHA)  
TLV – Threshold Limit Value (as recommended by ACGIH)  
VOC – Volatile Organic Compound

## Relevant Dates and Applicability

### Date of Issuance

December 15, 2021

### Date of Previous Revision

February 7, 2018

### Primary Revision Change(s)

Section 2 – Hazards Identification

### Document Applicability

This safety data sheet only applies to part number 1133 manufactured on or after January 1, 2015.

## Document Author

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## 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.