



# Safety Data Sheet

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

### Product Identification

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

Berryman *DIESEL AIR-BRAKE ANTIFREEZE*

#### Product Synonym(s)

blend "DABA"

#### Product Number(s)

0520, 0520-01

### Relevant Identified Uses and Uses Advised Against

#### Recommended Uses

multipurpose additive for diesel air brakes

#### Uses Advised Against

not for use in diesel fuels

### 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

Flammable Liquid – Category 2

#### Health Hazards

Acute Oral – Category 3

Acute Dermal – Category 3

Acute Inhalation – Category 3

Eye Irritant – Category 2A

Specific Target Organ Toxicity - Single Exposure – Category 3 (central nervous system, eyes/optic nerve)

### Allocation of Label Elements

#### Chemical Identity

Berryman *DIESEL AIR-BRAKE ANTIFREEZE*

#### Pictograms



#### Signal Word

DANGER

**Hazard Statements**

H225 – Highly flammable liquid and vapor.

H301 – Toxic if swallowed.

H311 – Toxic in contact with skin.

H320 – Causes eye irritation.

H331 – Toxic if inhaled.

H370 – Causes damage to organs.

**Prevention Precautionary Statements**

P101 – Keep out of reach of children.

P102 – Read label before use.

P210 – Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P240 – Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers.

P241 – Use explosion-proof electrical, ventilation, and lighting equipment.

P242 – Use only non-sparking tools, such as brass or bronze.

P243 – Take precautionary measures against static discharge.

P260 – Do not breathe fumes, gas, mist, vapor, or spray.

P264 – Wash thoroughly with soap and water after handling.

P270 – Do not eat, drink or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

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

**Response Precautionary Statements**

P311 – Call POISON CONTROL CENTER, hospital emergency room, or doctor.

P321 – Specific treatment available in this document in “Section 4 – First Aid Measures.”

P330 – Rinse mouth.

P301/P310 – IF SWALLOWED: Immediately call POISON CONTROL CENTER, hospital emergency room, or doctor.

P303/P361/P353/P3212 – IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with soap and water or shower. Rinse skin.

P304/P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P308/P311 – If exposed or concerned, call POISON CONTROL CENTER, hospital emergency room, or doctor.

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

P361/364 – Immediately take off all contaminated clothing and launder before reuse.

P370/P378 – In case of fire, use water fog, dry chemical, alcohol-resistant foam, or carbon dioxide to extinguish.

**Storage Precautionary Statements**

P405 – Store locked-up.

P403/P233 – Store in a well-ventilated place. Keep container tightly closed.

**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>
Methanol	67-56-1	90-100%

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

Immediately call poison control center, hospital emergency room, or doctor. Rinse mouth. Rinse mouth. Drink 1-2 glasses of milk or water.

**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 soap and water or shower. Call poison control center, hospital emergency room, or doctor.

**Description of First Aid Measures (cont'd)****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**

headache and lightheadedness

**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**

In the event of shortness of breath, difficulty breathing, or spontaneous vomiting, severe headache, or loss of consciousness, seek immediate medical attention.

**Specific Treatment and Notes to Physician**

If spontaneous vomiting occurs, keep head below hips to avoid aspiration.

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

Product supports combustion.

**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, carbon monoxide, carbon dioxide, and organic oxygenates.

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

Firefighters should employ SCBA and full protective gear, including shield, as product is comprised of low-boiling solvents and may vent, rupture, or explode violently at elevated temperatures.

**Precautions and Procedures**

Highly flammable liquid and vapor. Vapors heavier than air. Remove product from area if safe to do so. Use water spray to cool nearby containers.

**Additional Information****National Fire Protection Association (NFPA)**

flammable liquid classification IB

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

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers. Use explosion-proof electrical, ventilation, and lighting equipment. Use only non-sparking tools, such as brass or bronze. Do not breathe mist, vapor, or spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. 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**

Use large socks/absorbent booms or other inert barrier to form dam/dike in order to contain large spills 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. Remediate area as necessary.

**Materials and Methods for Cleanup (cont'd)****Large Spills**

Keep upwind from spill. Remove source from area if safe to do so. Use explosion-proof 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 area as necessary.

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

Do not breathe mist, vapor, or spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye or face protection. Wash thoroughly with soap and water after handling. Do not eat, drink, or smoke when using this product.

**Environmental Precautions**

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers. Use explosion-proof electrical, ventilation, and lighting equipment. Use only non-sparking tools, such as brass or bronze. Avoid release to the environment.

**Conditions and Considerations for Safe Storage**

Highly flammable liquid and vapor. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep out of reach of children. Store locked-up and in accordance with NFPA flammable liquid classification IB recommendations.

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

<u>Component</u>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Methanol	67-56-1	200 ppm	200 ppm

**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, light green

**Odor**

very mild, pleasant

**Odor Threshold**

20 ppm

**pH**

not relevant

**Freezing Point**

< -147°F

**Boiling Range**

148°F

**Flash Point and Method**

52°F by closed-cup tester

**Explosion Limits in Air**

5.5 - 37% by volume

**Evaporation Rate**

2.1 (n-Butyl Acetate=1.0)

## Information on Basic Physical and Chemical Properties (cont'd)

### Vapor Pressure, as supplied

92 mm of Hg at 68°F

### Vapor Density

>1.0

### Specific Gravity

0.792 at 68°F

### Density

6.60 lb/gal at 68°F

### Water Solubility

soluble in all proportions

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

-0.8

### Viscosity

0.6 cSt at 68°F

### Volatility

100% by weight

### Auto-ignition temperature

850°F (composite)

### Decomposition temperature

unknown

## 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

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. If practical, avoid temperatures exceeding flash point (52°F/11°C).

### Incompatible Materials

strong acids; oxidizers; reducing agents

### Hazardous Decomposition Products

none known

## Section 11 – Toxicological Information

### Likely Routes of Exposure

ingestion, skin contact, eye contact, inhalation

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

#### Ingestion

##### Large Quantity

gastrointestinal disturbances, including nausea and vomiting, dizziness, drunkenness, and coma

##### Small Quantity/Incidental Contact

gastrointestinal disturbances, including nausea and vomiting, dizziness, and drunkenness

#### Skin Contact

virtually nontoxic after single skin contact

#### Eye Contact

Slight eye irritation

#### Inhalation

Headache and lightheadedness

**Immediate, Delayed, and Chronic Effects*****SHORT-TERM EXPOSURE*****Potential Immediate Effects****Ingestion**

drying, burning, or irritation of the mouth and throat, gastrointestinal disturbances, and blindness

**Skin Contact**

drying of the skin

**Eye Contact**

temporary corneal damage

**Inhalation**

headache, dizziness, loss of consciousness, and death

**Potential Delayed Effects****Ingestion**

coma, and death

**Skin Contact**

defatting of the skin, drying and cracking of the skin, aggravation of pre-existing skin conditions

**Eye Contact**

temporary corneal damage

**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 “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**

eye/vision effects

**Repeated Exposure**

none known

**Numerical Measures of Acute Toxicity****Oral (Human)**

ATE: 100 mg/kg

**Dermal (Rabbit)**

ATE: 300 mg/kg

**Inhalation (Rat)**

ATE: 3.0 mg/L

**Additional Toxicological Information****Skin Irritation/Corrosion (Rabbit)**

not irritating to skin

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

slight eye irritant

## Additional Toxicological Information (cont'd)

### 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 or fatal to animal life. Very mobile in soils which may lead to contamination of groundwater.

### Aquatic Toxicity

#### Vertebrates (Fish)

##### Acute Toxicity

LC<sub>50</sub>: >100 mg/L

##### Chronic Toxicity

NOEC: 24 mg/L

#### Invertebrates (Water Flea)

##### Acute Toxicity

LC<sub>50</sub>: >100 mg/L

##### Chronic Toxicity

NOEC: not available

#### Aquatic Plants (Freshwater Algae)

##### Acute Toxicity

EC<sub>50</sub>: 22000 mg/L

##### Chronic Toxicity

NOEC: >100 mg/L

### Terrestrial Toxicity

#### Invertebrate (Earthworm)

LC<sub>50</sub>: not available

### Persistence and Degradability

#### Persistence

not expected to be persistent

#### Degradability

rapidly degradable

### Bioaccumulative Potential

#### Bioaccumulation Potential Assessment

does not bioaccumulate

#### Bioaccumulation Factor

not relevant

### 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>)

1.0

### Results of PBT and vPvB Assessment

not a persistent, bioaccumulative, toxic chemical (PBT);

not very persistent and 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 or fatal to animal life—do not pour on ground. Highly flammable liquid and vapor—do not pour down drain.

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

Based on this material as-supplied, used or unwanted product may be subject to RCRA regulations and classified as F003 – spent non-halogenated solvent mixture containing acetone, methanol, and/or xylene

## Section 14 – Transportation Information

### Transportation by Ground – US Department of Transportation

#### Shipping Description

UN1230, Methanol, 3, PG II

#### Exemption Eligibility

When shipped by ground, part #0520 may be eligible for a “Limited Quantity” exception per §49 CFR 173.150.

### Transportation by Air – ICAO/IATA

#### Shipping Description

UN1230, Methanol, 3 (6.1), PG II

#### Exemption Eligibility

When shipped by air, part #0520 may be eligible for a “Limited Quantity” exception.

### Transportation by Water – IMO/IMDG

#### Shipping Description

UN1230, Methanol, 3 (6.1), PG II

#### Exemption Eligibility

When shipped by water, part #0520 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)

Methanol

##### SARA Title III (42 USC 9601, et seq.) (cont'd.)

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

acute toxicity, chronic toxicity, fire hazard

###### Section 313 – Toxic Chemicals (40 CFR 372.65)

Methanol

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

###### Section 112 – Hazardous Air Pollutants

Methanol

###### 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: DANGER ☠ POISON: Flammable. May be fatal or cause blindness if swallowed. Vapor harmful. Eye irritant. Keep out of the reach of children.

#### *UNITED STATES – SELECT REGIONAL CONSIDERATIONS*

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

N/A—not regulated

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

N/A—not regulated



**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 subject to the labeling requirements of Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986 and must bear the cautionary symbol and statement:  **WARNING!** Reproductive Harm - [www.P65Warnings.CA.gov](http://www.P65Warnings.CA.gov)

**Air Resources Board (ARB/CARB)****Regulation for Reducing Emissions from Consumer Products – VOC Limit and Category**

N/A—not regulated

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

Methanol

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

Methyl Alcohol

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

Methyl Alcohol

**INTERNATIONAL – SELECT REGULATIONS****Canada****Environment Canada – Domestic Substances List (DSL)**

All chemicals known to be present in this product are listed on the DSL.

**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 listed on the IECSC.

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

All chemicals known to be present in this product are listed on the EINECS.

**Chemical Safety Assessment**

has not been conducted on product, as-supplied

**Section 16 – Other Information****Hazardous Materials Information System (HMIS)**

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

**Index of Abbreviations**

ACGIH – American Council of Governmental and Industrial Hygienists

ATE – Acute Toxicity Estimate

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)

SDS – Safety Data Sheet

TLV – Threshold Limit Value (as recommended by ACGIH)

VOC – Volatile Organic Compound

## Relevant Dates and Applicability

### Date of Issuance

January 11, 2023

### Date of Previous Revision

N/A—initial SDS

### Primary Revision Change(s)

N/A

### Document Applicability

This safety data sheet applies to part #s 0520 and 0520-01 manufactured on or after December 1, 2022.

## 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.