

# **Safety Data Sheet**

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

Product Identification Primary Identifier(s) Used on the Label Berryman B-12 MOTOR TUNE-UP Product Synonym(s) blend "UA-1" Product Number(s) 0316

Relevant Identified Uses and Uses Advised Against <u>Recommended Uses</u> gasoline, diesel fuel, and crankcase additive <u>Uses Advised Against</u> 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) <u>Physical Hazards</u> Flammable Liquid – Category 2 <u>Health Hazards</u> Skin Irritant – Category 2 Eye Irritant – Category 2A Specific Target Organ Toxicity - Single Exposure – Category 3 (respiratory tract irritant and narcotic effects) Aspiration Hazard – Category 1 Environmental Hazard - Chronic – Category 1

### Allocation of Label Elements

Chemical Identity Berryman *B-12 Motor Tune-Up* Pictograms



Signal Word DANGER

#### Hazard Statements

H225 – Highly flammable liquid and vapor.

H304 – May be fatal if swallowed and enters airways.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H321 Specific treatment (see supplemental first aid instructions this label/document).
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long-lasting effects.

### 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.
- P235 Keep cool.
- 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.
- P261 Avoid breathing fumes, gas, mist, vapor, or spray.
- P264 Wash thoroughly with soap and water after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.

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

#### **Response Precautionary Statements**

P312 - Call POISON CONTROL CENTER, hospital emergency room, or doctor if you feel unwell.

P321 - Specific treatment available in this document in "Section 4 - First Aid Measures."

P331 – Do NOT induce vomiting.

P391 - Collect spillage.

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

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

P332/P313 - If skin irritation occurs, get medical advice/attention.

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

P362/364 – Take off 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>CAS RN</u>	<u>Weight</u>
64742-65-0	40-60%
64742-49-0	25-35%
64-63-0	15-25%
	64742-65-0 64742-49-0

### Section 4 – First Aid Measures

#### **Description of First Aid Measures**

#### Ingestion

Immediately call poison control center, hospital emergency room, or doctor. Do NOT induce vomiting. 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.

#### 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

respiratory tract irritation; headache and lightheadedness; narcotic effects, including dizziness, drowsiness, and loss of coordination; nausea and vomiting

#### <u>Delayed</u>

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, seek immediate medical attention.

#### Specific Treatment and Notes to Physician

If performing lavage, endotracheal and/or esophageal control is recommended. If spontaneous vomiting occurs, keep head below hips to avoid aspiration.

# **Section 5 – Firefighting Measures**

#### Fire Extinguishing Media

#### Support for Combustion

Product supports combustion. <u>Suitable Extinguishing Media</u> water fog, dry chemical, alcohol-resistant foam, or carbon dioxide <u>Unsuitable Extinguishing Media</u> water jet/spray (may cause product to float to surface and reignite)

#### Special Hazards/Considerations

#### Combustion Products

Combustion in the presence of air may yield unburned hydrocarbons, organic oxygenates, ammonia, amines, and oxides of carbon and nitrogen.

# 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

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. Avoid breathing fumes, gas, mist, vapor, or spray. Wash thoroughly with soap and water after handling. 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.

#### 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. Remediate affected area as necessary.

#### 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 affected area as necessary.

## Section 7 - Handling and Storage

#### Precautions for Safe Handling

#### Personal Precautions

Avoid breathing fumes, gas, 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.

#### **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

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>	ACGIH TLV
Petroleum Oil (as "Mineral Oil mist")	64742-65-0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Petroleum Distillates (as "Certain Refined Hydrocarbon Solvent Vapor Mixtures")	64742-49-0	NE	1200 mg/m <sup>3</sup>
2-Propanol	64-63-0	500 ppm	400 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, PVA, 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 yellow to yellow Odor mild, solvent Odor Threshold 22 ppm pH not relevant Freezing Point <32°F Boiling Range 179 - 1100°F

Flash Point and Method 55-60°F by closed-cup tester Explosion Limits in Air 1.1 - 8.2% by volume Evaporation Rate 0.9 (n-Butyl Acetate=1.0) Vapor Pressure, as supplied 11 mm of Hg at 68°F Vapor Density >1.0 Specific Gravity 0.80 at 68°F Density 6.7 lb/gal at 68°F Water Solubility insoluble n-Octanol/Water Partition Coefficient (log Pow) not available Viscosity 2 - 3 cSt at 68°F Volatility 55 - 60% by weight Auto-ignition Temperature 630°F (composite)

# Section 10 - Stability and Reactivity

Chemical Stability under Normal Conditions of Use <u>Chemical Stability</u> Stable under normal conditions of use. <u>Conditions Affording Instability</u> none known

#### Reactivity

May react with chlorine, acid chlorides, and phosphorus chlorides

#### Possibility of Hazardous Reactions

May form chloroacetones in the presence of chlorine, acid chlorides, and phosphorus chlorides.

#### Conditions to Avoid

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. If practical, avoid temperatures exceeding flash point.

#### **Incompatible Materials**

strong acids; oxidizers; reducing agents; chlorine, acid chlorides, and phosphorus chlorides

#### 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 upset stomach, cramping, nausea, vomiting, and diarrhea Small Quantity/Incidental Contact

gastrointestinal disturbances, including upset stomach and cramping

#### Skin Contact

moderate irritation

#### Eye Contact

blurred vision, moderate eye irritation

#### Inhalation

respiratory tract irritation; headache, lightheadedness; narcotic effects, including dizziness, drowsiness, and loss of coordination; nausea and vomiting

### Immediate, Delayed, and Chronic Effects

#### SHORT-TERM EXPOSURE

#### Potential Immediate Effects

Ingestion drying, burning, or irritation of the mouth and throat; gastrointestinal disturbances; nausea and vomiting Skin Contact drying of the skin Eye Contact blurred vision, temporary corneal damage Inhalation shortness of breath or difficulty breathing, headache, dizziness, nausea and vomiting, drowsiness, fatigue, loss of consciousness, death Potential Delayed Effects Ingestion aspiration pneumonitis, cyanosis, coma, 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 nausea and vomiting, fatigue, loss of consciousness 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

central nervous system (narcotic effects), respiratory tract (irritation) <u>Repeated Exposure</u> none known

#### Numerical Measures of Acute Toxicity

Oral (Rat) LD<sub>50</sub>: >5000 mg/kg (derived) Dermal (Rabbit) LD<sub>50</sub>: 2480 mg/kg (derived) Inhalation (Rat) LC<sub>50</sub>: 37 mg/L (derived)

Additional Toxicological Information <u>Skin Irritation/Corrosion (Rabbit)</u> skin irritant <u>Serious Eye Damage/Irritation (Rabbit)</u> eye irritant Respiratory Sensitization does not cause respiratory sensitization Skin Sensitization does not cause skin sensitization Aspiration Hazard known aspiration hazard

# Section 12 - Ecological Information

#### General Ecological Assessment/Overview

Very toxic to aquatic life with long-lasting effects.

#### Aquatic Toxicity

Vertebrates (Fish) Acute Toxicity  $LC_{50}$ : 11 mg/L (derived) Chronic Toxicity NOEC: not available Invertebrates (Water Flea) Acute Toxicity  $LC_{50}$ : 4.2 mg/L (derived) Chronic Toxicity NOEC: not available Aquatic Plants (Freshwater Algae) Acute Toxicity  $EC_{50}$ : 8.8 mg/L (derived) Chronic Toxicity NOEC: not available

#### Terrestrial Toxicity <u>Invertebrate (Earthworm)</u> LC<sub>50</sub>: not available

#### Persistence and Degradability

Persistence not available Degradability non-rapidly degradable

#### Bioaccumulative Potential

Bioaccumulation Potential Assessment does not bioaccumulate Bioaccumulation Factor not available

#### Mobility in Soils

Mobility in Soils Assessment not mobile in soils Soil Organic Carbon/Water Partition Coefficient (log Koc) not available

#### 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. Very toxic to aquatic life with long-lasting effects—do not pour into waterways. 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 D001 – ignitable waste

# Section 14 – Transportation Information

Transportation by Ground – US Department of Transportation <u>Shipping Description</u> UN1993, Flammable Liquids, n.o.s., (contains Petroleum Distillates and Isopropyl Alcohol), 3, PG III <u>Exemption Eligibility</u> When shipped by ground, this product may be eligible for a "Limited Quantity" exception per §49 CFR 173.150.

#### Transportation by Air – ICAO/IATA Shipping Description

UN1993, Flammable Liquids, n.o.s., (contains Petroleum Distillates and Isopropyl Alcohol), 3, PG III

#### Transportation by Water - IMO/IMDG

Shipping Description

UN1993, Flammable Liquids, n.o.s., (contains Petroleum Distillates and Isopropyl Alcohol), 3, PG III <u>Exemption Eligibility</u>

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, fire hazard

Section 313 - Toxic Chemicals (40 CFR 372.65)

none

Clean Air Act (42 USC 7401, et seq.) Section 112 – Hazardous Air Pollutants

none

Regulation of Fuels and Fuel Additives

This product complies with the requirements of §40 CFR 80 and must be used in a manner consistent with the directions on the label. 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: Flammable. Harmful or fatal if swallowed. Eye and skin irritant. Keep out of the reach of children.

#### UNITED STATES - SELECT REGIONAL CONSIDERATIONS

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

not regulated as a fuel additive

Lake Michigan Air Directors Consortium (LADCO) – Model Rule VOC Limit and Category not regulated as a fuel additive

#### UNITED STATES - SELECT STATE REGULATIONS

#### California

Office of Environmental Health Hazard Assessment (OEHHA)

#### Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986

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 not regulated as a fuel additive

#### Massachusetts "Right-to-Know" Legislation – Substance List (105 CMR 670.000) Isopropyl Alcohol, Nonane <u>New Jersey</u> "Right-to-Know" Legislation – Hazardous Substance List (34:5A-1, et seq.) Isopropyl Alcohol, Nonane <u>Pennsylvania</u> "Right-to-Know" Legislation – Hazardous Substance List (Chapter 323) 2-Propanol, Nonane

INTERNATIONAL - SELECT REGULATIONS

#### <u>Canada</u>

#### 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.

#### <u>China</u>

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)



#### 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
- $LC_{50}$  Median Lethal Concentration
- LD<sub>50</sub> Median Lethal Dose
- NE Not Established

NOEC – No Observable Exposure Concentration

PEL – Permissible Exposure Limit (as required by OSHA)

TLV – Threshold Limit Value (as recommended by ACGIH)

### Relevant Dates and Applicability

### Date of Issuance

July 16, 2015

Date of Previous Revision

not applicable-initial Safety Data Sheet

### Primary Revision Change(s)

not applicable

#### Document Applicability

This safety data sheet only applies to part number(s) 0316 manufactured on or after January 1, 2013.

### **Document Author**

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.