

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

#### Product Identification

Primary Identifier(s) Used on the Label Berryman *B-60 High-Mileage OIL SYSTEM REJUVENATOR* Product Synonym(s) blend "OSR-G" Product Number(s) 7517

Relevant Identified Uses and Uses Advised Against <u>Recommended Uses</u> gasoline engine oil additive <u>Uses Advised Against</u> not for use in diesel engines

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> <u>Health Hazards</u> Environmental Hazard - Chronic – Category 1

### Allocation of Label Elements

Chemical Identity Berryman *B-60 High-Mileage OIL SYSTEM REJUVENATOR* Pictograms



Signal Word WARNING Hazard Statements 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. P273 – Avoid release to the environment.

#### **Response Precautionary Statements**

P391 - Collect spillage.

Storage Precautionary Statements

#### none

#### **Disposal Precautionary Statements**

P501 – Dispose of contents/container in accordance with all local, regional, national, and international regulations/requirements, 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>
Petroleum Oil	64742-65-0	50-60%
Zinc Dialkyl Dithiophosphate	proprietary	2-5%
Polybutylene Succinimide	confidential	2-5%
Organomolybdenum Complex	proprietary	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 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 none known Delayed none known

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 supports combustion. Suitable Extinguishing Media water fog, dry chemical, alcohol-resistant foam, or carbon dioxide Unsuitable Extinguishing Media 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 hydrocarbons; organic oxygenates; organometallic compounds of zinc and molybdenum; sulfides, and phosphites/phosphides; ammonia and amino compounds; mercaptans; and oxides of carbon, nitrogen sulfur, phosphorus, zinc, and molybdenum.

### 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 greatly elevated temperatures.

#### Precautions and Procedures

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 IIIB

### Section 6 - Accidental Release Measures

#### Personal and Environmental Precautions

#### Personal Precautions

Spills may be extremely slippery. <u>Environmental Precautions</u> 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. 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

Wash thoroughly with soap and water after handling.

### **Environmental Precautions**

Avoid release to the environment.

#### Conditions and Considerations for Safe Storage

Keep out of reach of children.

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

<u>Component</u>	CAS RN	OSHA PEL	ACGIH TLV		
Petroleum Oil (as oil mist)	64742-65-0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		
Exposure Controls					
Appropriate Engineering (	<u>Controls</u>				
If practical, use outside with adequate ventilation to minimize exposure.					
PPE Overview					
Hand Protection					
Use of impermeable gloves	is recommended	d.			
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, acce	ss to a chemical	safety shower wit	h eye wash station is	strongly recommended.	

# **Section 9 – Physical and Chemical Properties**

Information on Basic Physical and Chemical Properties **Physical State** liquid **Appearance** clear, amber to dark brown Odor practically odorless Odor Threshold N/A pН not relevant **Freezing Point** <0°F **Boiling Range** 480 - 1100°F Flash Point and Method >400°F by closed-cup tester **Explosion Limits in Air** 0.7 - 7.4% by volume Evaporation Rate 0.0 (n-Butyl Acetate=1.0) Vapor Pressure, as supplied 0.0 mm of Hg at 68°F Vapor Density <1.0 Specific Gravity 0.89 at 68°F Density 7.4 lb/gal at 68°F Water Solubility insoluble n-Octanol/Water Partition Coefficient (log Pow) 7.3 (composite) Viscosity 20 - 30 cSt at 68°F Volatility 0% by weight Auto-ignition temperature 810°F (composite) Decomposition temperature Unknown

# 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 direct sunlight.

Possibility of Hazardous Reactions none known

Conditions to Avoid none specific

Incompatible Materials strong acids; oxidizers; reducing agents

Hazardous Decomposition Products none known

# **Section 11 – Toxicological Information**

#### Likely Routes of Exposure

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

mild skin irritation <u>Eye Contact</u> blurred vision <u>Inhalation</u> virtually nontoxic by short-term inhalation

#### Immediate, Delayed, and Chronic Effects

#### SHORT-TERM EXPOSURE

Potential Immediate Effects Ingestion gastrointestinal disturbances Skin Contact none known **Eve Contact** blurred vision 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 LD<sub>50</sub>: 2050 mg/kg (derived) Inhalation (Rat) LC<sub>50</sub>: not relevant

### Additional Toxicological Information

Skin Irritation/Corrosion (Rabbit) slight skin irritant Serious Eye Damage/Irritation (Rabbit) not irritating to eyes 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

Very toxic to aquatic life with long-lasting effects.

#### **Aquatic Toxicity**

# Terrestrial Toxicity

Invertebrate (Earthworm) LC50: not available

#### Persistence and Degradability

Persistence insufficient persistence data available Degradability non-rapidly degradable

#### Bioaccumulative Potential

Bioaccumulation Potential Assessment may bioaccumulate (organomolybdenum complex) Bioaccumulation Factor 1000 (organomolybdenum complex)

#### Mobility in Soils Mobility in Soils Assessment not mobile in soils

Mobility in Soils (cont'd)

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 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. Very toxic to aquatic life with long-lasting effects—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 and flammability characteristics

# **Section 14 – Transportation Information**

Transportation by Ground – US Department of Transportation Shipping Description not regulated by DOT

Transportation by Air – ICAO/IATA <u>Shipping Description</u> not regulated by ICAO

Transportation by Water – IMO/IMDG <u>Shipping Description</u> not regulated by IMO

# **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 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. Keep out of the reach of children.

#### UNITED STATES – SELECT REGIONAL CONSIDERATIONS

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

not regulated

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

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

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

#### Massachusetts

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

none

New Jersey

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

#### none

Pennsylvania

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

none

#### 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.

#### <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)

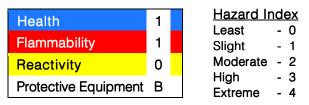
All chemicals known to be present in this product are either listed on the EINECS or are not required to be.

#### 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

#### Index of Abbreviations (cont'd)

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 IssuanceJanuary 11, 2018Date of Previous Revisionnot applicable—initial Safety Data SheetPrimary Revision Change(s)not applicableDocument ApplicabilityThis safety data sheet only applies to part number 7517.

#### **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.