



# Safety Data Sheet

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

### Product Identification

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

Berryman *TRANSMISSION & POWER STEERING SEALER*

#### Product Synonym(s)

blend "PSTS"

#### Product Number(s)

0712 and 0755

### Relevant Identified Uses and Uses Advised Against

#### Recommended Uses

automatic transmission and power steering pump seal conditioner

#### Uses Advised Against

not for use in manual transmissions

### 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

#### Health Hazards

Eye Irritant – Category 2B

Specific Target Organ Toxicity - Repeated Exposure – Category 2 (blood/blood system)

Environmental Hazard - Chronic – Category 1

### Allocation of Label Elements

#### Chemical Identity

Berryman *TRANSMISSION & POWER STEERING SEALER*

#### Pictograms



#### Signal Word

WARNING

#### Hazard Statements

H320 – Causes eye irritation.

H373 – May cause damage to blood/blood system through prolonged or repeated exposure.

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.  
 P260 – Do not breathe fumes, gas, mist, vapor, or spray.  
 P264 – Wash thoroughly with soap and water after handling.  
 P273 – Avoid release to the environment.

**Response Precautionary Statements**

P314 – Get medical advice/attention if you feel unwell.  
 P391 – Collect spillage.  
 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**

none

**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>
Petroleum Oil	64742-52-5	50-60%
Triphenyl Phosphate	115-86-6	3-6%
2-Butoxyethanol	111-76-2	2-5%
Petroleum Oil	64742-65-0	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, phosphates/phosphites, and sulfides; mercaptans; and oxides of carbon, phosphorus, 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**

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**

Do not breathe fumes, gas, mist, vapor, or spray. Wash thoroughly with soap and water after handling.

**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. 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**

Do not breathe fumes, gas, mist, vapor, or spray. 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**

<b><u>Component</u></b>	<b><u>CAS RN</u></b>	<b><u>OSHA PEL</u></b>	<b><u>ACGIH TLV</u></b>
Petroleum Oil (as "Mineral Oil Mist")	64742-52-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Triphenyl Phosphate	115-86-6	3 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
2-Butoxyethanol	111-76-2	50 ppm	20 ppm
Petroleum Oil (as "Mineral Oil Mist")	64742-65-0	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, 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

practically odorless

#### pH

not relevant

#### Freezing Point

<-6°F

#### Boiling Range

334 - 1100°F

#### Flash Point and Method

>200°F by closed-cup tester

#### Explosion Limits in Air

1.0 - 7.2% 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

0.96 at 68°F

#### Density

8.0 lb/gal at 68°F

#### Water Solubility

insoluble

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

5.7 (composite)

#### Viscosity

35 - 40 cSt at 68°F

#### Volatility

2 - 5% by weight

#### Auto-ignition temperature

not available

## 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

May form peroxides in the presence of air.

### Conditions to Avoid

none specific

### 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,

### 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

#### Eye Contact

blurred vision, slight eye irritation

#### Inhalation

virtually nontoxic by short-term inhalation

### Immediate, Delayed, and Chronic Effects

#### *SHORT-TERM EXPOSURE*

#### Potential Immediate Effects

##### **Ingestion**

gastrointestinal disturbances

##### **Skin Contact**

none known

##### **Eye 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**

blood/blood system  
effects

**Numerical Measures of Acute Toxicity**

**Oral (Rat)**

LD<sub>50</sub>: 4100 mg/kg (derived)

**Dermal**

LD<sub>50</sub>: 2140 mg/kg (derived)

**Inhalation (Rat)**

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

**Additional Toxicological Information**

**Skin Irritation/Corrosion (Rabbit)**

slight skin irritant

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

slight 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**

Very toxic to aquatic life with long-lasting effects.

**Aquatic Toxicity**

**Vertebrates (Fish)**

**Acute Toxicity**

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

**Chronic Toxicity**

NOEC: not available

**Invertebrates (Water Flea)**

**Acute Toxicity**

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

**Chronic Toxicity**

NOEC: not available

**Aquatic Plants (Freshwater Algae)**

**Acute Toxicity**

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

**Chronic Toxicity**

NOEC: not available

**Terrestrial Toxicity**

**Invertebrate (Earthworm)**

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

**Persistence and Degradability**

**Persistence**

insufficient persistence data 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 K<sub>oc</sub>)

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. Severe marine pollutant. 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

UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (contains Triphenyl Phosphate), 9, III

#### Exemption Eligibility

When shipped by ground, this product may be eligible for a “Limited Quantity” exception per §49 CFR 173.155.

### Transportation by Air – ICAO/IATA

#### Shipping Description

UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (contains Triphenyl Phosphate), 9, III

### Transportation by Water – IMO/IMDG

#### Shipping Description

UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (contains Triphenyl Phosphate), 9, III, Marine Pollutant

#### 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, chronic toxicity

Section 313 – Toxic Chemicals (40 CFR 372.65)

2-Butoxyethanol (“certain Glycol Ethers”)

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)**

Triphenyl Phosphate, 2-Butoxyethanol

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

Triphenyl Phosphate, 2-Butoxyethanol

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

Phosphoric Acid, Triphenyl Ester; 2-Butoxyethanol

***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	* 1
Flammability	1
Reactivity	0
Protective Equipment	B

**Hazard Index**

Least	- 0
Slight	- 1
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

July 14, 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) 0712 and 0755 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.