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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS RN</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Oil</td>
<td>64742-52-5</td>
<td>50-60%</td>
</tr>
<tr>
<td>Triphenyl Phosphate</td>
<td>115-86-6</td>
<td>3-6%</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>2-5%</td>
</tr>
<tr>
<td>Petroleum Oil</td>
<td>64742-65-0</td>
<td>1-2%</td>
</tr>
</tbody>
</table>

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 III B

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS RN</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Oil (as “Mineral Oil Mist”)</td>
<td>64742-52-5</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Triphenyl Phosphate</td>
<td>115-86-6</td>
<td>3 mg/m³</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>50 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Petroleum Oil (as “Mineral Oil Mist”)</td>
<td>64742-65-0</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

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.
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

Volutility
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$_{50}$: 4100 mg/kg (derived)

**Dermal**
LD$_{50}$: 2140 mg/kg (derived)

**Inhalation (Rat)**
LC$_{50}$: >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$_{50}$: not available

**Chronic Toxicity**
NOEC: not available

**Invertebrates (Water Flea)**

**Acute Toxicity**
LC$_{50}$: not available

**Chronic Toxicity**
NOEC: not available

**Aquatic Plants (Freshwater Algae)**

**Acute Toxicity**
EC$_{50}$: not available

**Chronic Toxicity**
NOEC: not available

**Terrestrial Toxicity**

**Invertebrate (Earthworm)**
LC$_{50}$: 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
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
**Section 16 – Other Information**

**Hazardous Materials Information System (HMIS)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Protective Equipment</td>
<td>B</td>
</tr>
</tbody>
</table>

**Hazard Index**

- Least - 0
- Slight - 1
- Moderate - 2
- High - 3
- Extreme - 4

**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)

  
  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

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Berryman Products, Inc. – part #s 0712 and 0755

Safety Data Sheet – Page 8 of 9
Index of Abbreviations
ACGIH – American Council of Governmental and Industrial Hygienists
CAS RN – Chemical Abstracts Service Registry Number
EC₅₀ – Median Effective Concentration
IATA – International Air Transport Association
ICAO – International Civil Aviation Organization
IMDG – International Maritime Dangerous Goods
IMO – International Maritime Organization
LC₅₀ – Median Lethal Concentration
LD₅₀ – 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
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.