



Safety Data Sheet

Section 1 – Identification of the Mixture and of the Company

Product Identification

Primary Identifier(s) Used on the Label

Berryman *GAS & DIESEL FUEL CONDITIONER*

Product Synonym(s)

blend "GDFC"

Product Number(s)

6901

Relevant Identified Uses and Uses Advised Against

Recommended Uses

gasoline and diesel fuel additive

Uses Advised Against

none known

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 3

Health Hazards

Eye Irritant – Category 2B

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 *GAS & DIESEL FUEL CONDITIONER*

Pictograms



Signal Word

DANGER

Hazard Statements

H226 – Flammable liquid and vapor.

H304 – May be fatal if swallowed and enters airways.

Hazard Statements (cont'd)

H320 – Causes eye irritation.
 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.
 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 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

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/P312 – IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with soap and water or shower. Call POISON CONTROL CENTER, hospital emergency room, or doctor if you feel unwell.
 P304/P340/312 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CONTROL CENTER, hospital emergency room, or doctor if you feel unwell.
 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.
 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 known

Section 3 – Composition/Information on Ingredients

<u>Component</u>	<u>CAS RN</u>	<u>Weight</u>
Petroleum Distillates	64742-88-7	75-85%

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

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, 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.

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, ammonia, amines, and other 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

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

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 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. 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

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

Keep upwind from spill. Remove source from area if safe to do so. Use a mop and mop bucket or 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 mist, vapor, or spray. Use only outdoors or in a well-ventilated area. 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 out of reach of children. Store locked-up and in accordance with NFPA flammable liquid classification II recommendations.

Section 8 – Exposure Controls/Personal Protection

<u>Component</u>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Petroleum Distillates (as Stoddard Solvent)	64742-88-7	500 ppm	500 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 (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, characteristic

Odor Threshold

25 ppm

pH

not relevant

Freezing Point

<-68°F

Boiling Range

300 - 1000°F

Flash Point and Method

105 - 110°F by closed-cup tester

Explosion Limits in Air

0.8 - 7.0% by volume

Evaporation Rate

<0.1 (n-Butyl Acetate=1.0)

Vapor Pressure, as supplied

0.8 mm of Hg at 20°C (68°F)

Vapor Density

>1.0

Specific Gravity

0.805 at 68°F

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

6.71 lb/gal at 68°F

Water Solubility

insoluble

n-Octanol/Water Partition Coefficient (log P_{ow})

4.9 (composite)

Viscosity

1.5-2.0 cSt at 68°F

Volatility

80-90% by weight

Auto-ignition Temperature

550°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.

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 upset stomach, cramping, nausea, vomiting, and diarrhea

Small Quantity/Incidental Contact

gastrointestinal disturbances, including upset stomach and cramping

Skin Contact

mild skin irritation

Eye Contact

blurred vision, slight 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**

gastrointestinal disturbances; nausea and vomiting

Skin Contact

drying of the skin

Potential Immediate Effects (cont'd)

Eye Contact

blurred vision

Inhalation

shortness of breath or difficulty breathing, headache, dizziness, nausea and vomiting, drowsiness, fatigue, death

Potential Delayed Effects

Ingestion

aspiration pneumonitis, cyanosis, death

Skin Contact

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

Eye Contact

none known

Inhalation

fatigue

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)

Repeated Exposure

none known

Numerical Measures of Acute Toxicity

Oral (Rat)

LD₅₀: >5000 mg/kg (derived)

Dermal (Rabbit)

LD₅₀: >2000 mg/kg (derived)

Inhalation (Rat)

LC₅₀: 23 mg/L (derived)

Additional Toxicological Information

Skin Irritation/Corrosion (Rabbit)

slight skin irritant

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

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

LC₅₀: 20 mg/L (derived)

Chronic Toxicity

NOEC: not available

Invertebrates (Water Flea)

Acute Toxicity

LC₅₀: 3.4 mg/L (derived)

Chronic Toxicity

NOEC: not available

Aquatic Plants (Freshwater Algae)

Acute Toxicity

EC₅₀: 4.8 mg/L (derived)

Chronic Toxicity

NOEC: not available

Terrestrial Toxicity

Invertebrate (Earthworm)

LC₅₀: not available

Persistence and Degradability

Persistence

no 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_{oc})

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. 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/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

Shipping Description

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

Exemption Eligibility

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), 3, PG III

Exemption Eligibility

When shipped by air, this product may be eligible for a “Limited Quantity” exception.

Transportation by Water – IMO/IMDG**Shipping Description**

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

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, 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 (40 CFR 80)

complies with the requirements of 40 CFR 80 and must be used in a manner consistent with the directions on the product 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 SDS 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: Combustible. 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**

N/A—not regulated as a fuel additive

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

N/A—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 (Prop 65)**

This product does not contain any components subject to the labeling requirements of Proposition 65.

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

N/A—not regulated as a fuel additive

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

UNITED STATES – SELECT STATE REGULATIONS (cont'd.)**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.

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	Hazard Index
Flammability	2	Least - 0
Reactivity	0	Slight - 1
Protective Equipment	B	Moderate - 2
		High - 3
		Extreme - 4

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 ConcentrationLD₅₀ – 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**

June 9, 2020

Date of Previous Revision

N/A

Primary Revision Change(s)

N/A—initial SDS for blend "GDFC"

Document Applicability

This safety data sheet only applies to part #6901 manufactured on or after June 1, 2020.

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.