Safety Data Sheet

Section 1 – Identification of the Mixture and of the Company

Product Identification

Primary Identifier(s) Used on the Label
Berryman *TITE-GRIP BELT DRESSING*
Product Synonym(s)
blend "TiGrp"
Product Number(s)
0807

Relevant Identified Uses and Uses Advised Against

Recommended Uses
aerosol tackifier for rubber belts
Uses Advised Against
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)

Physical Hazards
Liquefied Gas
Health Hazards
Skin Irritant – Category 2
Eye Irritant – Category 2B
Specific Target Organ Toxicity - Single Exposure – Category 3 (respiratory tract irritant and narcotic effects)
Environmental Hazard - Acute – Category 2

Allocation of Label Elements

Chemical Identity
Berryman *TITE-GRIP BELT DRESSING*
Pictograms

Signal Word
WARNING

Hazard Statements
H280 – Contains gas under pressure; may explode if heated.
H315 – Causes skin irritation.
H320 – Causes eye irritation.
H335 – May cause respiratory irritation.
H336 – May cause drowsiness or dizziness.
H401 – Toxic to aquatic life.
Prevention Precautionary Statements
P101 – Keep out of reach of children.
P102 – Read label before use.
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."
P302/P352 – IF ON SKIN: Wash with plenty of 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.
Storage Precautionary Statements
P405 – Store locked-up.
P410/P412 – Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).
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

Component	CAS RN	Weight
Water	7732-18-5	50-65%
Heptane	426260-76-6	10-20%
n-Butane	106-97-8	5-15%
Propane	74-98-6	5-15%
Triethylene Glycol	112-27-6	2-5%

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
Wash with plenty of 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 or difficulty breathing, seek immediate medical attention.

Specific Treatment and Notes to Physician

no additional information available

Section 5 – Firefighting Measures

Fire Extinguishing Media

Support for Combustion

Product does not support combustion, as-supplied.

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, carbon monoxide, carbon dioxide, and organic oxygenates.

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

Pressurized container—may burst if heated. 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

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. 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. Remediate affected area as necessary.

Large Spills

Keep upwind from spill. Remove source from area if safe to do so. Use 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

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

Avoid release to the environment.

Conditions and Considerations for Safe Storage

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Store locked-up. Store according to NFPA Aerosol Level 1 recommendations.

Section 8 – Exposure Controls/Personal Protection

Component	CAS RN	OSHA PEL	ACGIH TLV
n-Heptane	142-82-5	500 ppm	400 ppm
n-Butane	106-97-8	NE	simple asphyxiant
Propane	74-98-6	1000 ppm	1000 ppm

Exposure Controls

Appropriate Engineering Controls
If practical, use outside with adequate ventilation to minimize exposure.

PPE Overview

Hand Protection
Use of impermeable gloves 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
white to off-white emulsion

Odor
mild, solvent

Odor Threshold
230 ppm

pH
6 - 8

Freezing Point
<32°F

Boiling Range
180 - 550°F

Flash Point and Method
none by closed-cup tester

Explosion Limits in Air
1.8 - 8.0% by volume

Evaporation Rate
4.0 (n-Butyl Acetate=1.0)

Vapor Pressure, as supplied
40 - 60 PSI (typical)

Vapor Density
>1.0

Specific Gravity
0.94 at 68°F

Density
7.8 lb/gal at 68°F

Water Solubility
emulsifies

n-Octanol/Water Partition Coefficient (log P_{ow})
<-1.0 (composite)

Viscosity
5 - 10 cSt at 68°F

Volatility
90 - 95% by weight

Auto-ignition temperature
610°F (composite)

Decomposition temperature
>1000°F (composite)

Other Information

VOC Content
34% by weight (EPA Method 24)
34% by weight (consumer products)
VOC Composite Partial Pressure, PPC
76 mm of Hg at 68°F

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

Avoid direct sunlight and excessive temperatures. Do not puncture, incinerate, or crush. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Incompatible Materials

strong acids; oxidizers; reducing agents; and powered zinc, aluminum, magnesium, potassium, and sodium

Hazardous Decomposition Products

none known

Section 11 – Toxicological Information

Likely Routes of Exposure

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
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
Eye Contact
none known
Inhalation
shortness of breath or difficulty breathing, headache, dizziness, nausea and vomiting, drowsiness, fatigue, and loss of consciousness

Potential Delayed Effects

Ingestion

none known

Skin Contact

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

Eye Contact

none known

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)

Repeated Exposure

none known

Numerical Measures of Acute Toxicity

Oral (Rat)

LD_{50}: >5000 mg/kg (derived)

Dermal (Rabbit)

LD_{50}: >5000 mg/kg (derived)

Inhalation (Rat)

LC_{50}: >50 mg/L (derived)

Additional Toxicological Information

Skin Irritation/Corrosion (Rabbit)

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

Toxic to aquatic life. Very mobile in soils which may lead to contamination of groundwater.

Aquatic Toxicity

Vertebrates (Fish)

Acute Toxicity

LC_{50}: 20 mg/L (derived)

Chronic Toxicity

NOEC: not available

Invertebrates (Water Flea)

Acute Toxicity

LC_{50}: 7.4 mg/L (derived)

Chronic Toxicity

NOEC: not available

Aquatic Plants (Freshwater Algae)

Acute Toxicity

EC_{50}: 21 mg/L (derived)

Chronic Toxicity

NOEC: not available

Terrestrial Toxicity

Invertebrate (Earthworm)

LC_{50}: not available

Persistence and Degradability

Persistence

not expected to be persistent

Degradability

rapidly degradable

Bioaccumulative Potential

Bioaccumulation Potential Assessment

may bioaccumulate (n-Heptane)

Bioaccumulation Factor

2,000 (n-Heptane)

Mobility in Soils

Mobility in Soils Assessment

very mobile in soils—may contaminate groundwater

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. Toxic to aquatic life—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

UN1950, Aerosols, 2.2

Exemption Eligibility

When shipped by ground, this product may be eligible for a “Limited Quantity” exception per §49 CFR 173.306.

Transportation by Air – ICAO/IATA

Shipping Description

UN1950, Aerosols, 2.2

Transportation by Water – IMO/IMDG

Shipping Description

UN1950, Aerosols, 2.2

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, sudden release of pressure

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: DANGER: Extremely Flammable. Harmful or fatal if swallowed. Eye and skin irritant. Contents under pressure. 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)

Heptane, n-Butane, Propane

New Jersey

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

Heptane, n-Butane, Propane

Pennsylvania

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

Heptane; n-Butane; Propane; Ethanol, 2,2'-[1,2-Ethanediyl-bis(Oxy)]bis-

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	2
Flammability	0
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_{50} – 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_{50} – 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 1, 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) 0807 manufactured on or after January 1, 2015.

Document Author
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