



Safety Data Sheet

Section 1 – Identification of the Mixture and of the Company

Product Identification

Primary Identifier(s) Used on the Label

Berryman B-104 LEMON FRESH TOWELETTES

Product Synonym(s)

blend "LFT"

Product Number(s)

1140 and 1190

Relevant Identified Uses and Uses Advised Against

Recommended Uses

home, industrial, and institutional cleaning wipe

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

none

Health Hazards

Eye Irritant – Category 2B

Environmental Hazard - Acute – Category 3

Allocation of Label Elements

Chemical Identity

Berryman B-104 LEMON FRESH TOWELETTES

Pictograms

none

Signal Word

WARNING

Hazard Statements

H320 – Causes eye irritation.

H402 – Harmful to aquatic life.

Prevention Precautionary Statements

P101 – Keep out of reach of children.

P102 – Read label before use.

P264 – Wash thoroughly after handling.

P273 – Avoid release to the environment.

Response Precautionary Statements

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 all 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>
Water	7732-18-5	75-80%
Dimethyl Glutarate	1119-40-0	3-4%
Linear Alcohol Ethoxyate	68439-46-3	2-3%
D-Limonene	5989-27-5	1-2%
Dimethyl Succinate	106-65-0	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

Not typically required. If skin irritation persists, get medical advice/attention.

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

If spontaneous vomiting occurs, keep head below hips to avoid aspiration.

Section 5 – Firefighting Measures**Fire Extinguishing Media****Support for Combustion**

Product does not support combustion, as-supplied.

Suitable Extinguishing Media

water spray, water fog, dry chemical, alcohol-resistant foam, or carbon dioxide

Unsuitable Extinguishing Media

none known

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

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**

Wash thoroughly after handling.

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

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 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>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
none	N/A	N/A	N/A

Exposure Controls**Appropriate Engineering Controls**

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

PPE Overview**Hand Protection**

Not required under normal conditions of use.

Eye Protection

Use of safety glasses with wrap-around lens or goggles is recommended.

Respiratory Protection

If necessary, use respiratory protection to minimize exposure.

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-impregnated towel/wipe

Appearance

N/A

Odor

mild, lemon

Odor Threshold

<1 ppm

pH

6 - 8

Freezing Point

<32°F

Boiling Range

212 - 800°F

Flash Point and Method

>200°F by closed-cup tester

Explosion Limits in Air

1.1 - 7.9% by volume

Evaporation Rate

0.3 (n-Butyl Acetate=1.0)

Vapor Pressure, as supplied

15 mm of Hg at 68°F

Vapor Density

>1.0

Specific Gravity

1.0 at 68°F

Density

8.4 lb/gal at 68°F

Water Solubility

emulsifies

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

not available

Viscosity

N/A

Volatility

90 - 95% by weight

Auto-ignition temperature

not available

Other Information

VOC Content

9% by weight (EPA Method 24)

<4% by weight (consumer products)

VOC Composite Partial Pressure, PPC

0.0 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. May contain the following stabilizer(s): Tocopheryl Acetate

Conditions Affording Instability

none known

Reactivity

not expected

Possibility of Hazardous Reactions

none known

Conditions to Avoid

none specific

Incompatible Materials

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

Hazardous Decomposition Products

none known

Section 11 – Toxicological Information

Likely Routes of Exposure

eye contact

Symptoms Related to Physical, Chemical, and Toxicological Characteristics

Ingestion

Large Quantity

gastrointestinal disturbances, including upset stomach, cramping, nausea, vomiting

Small Quantity/Incidental Contact

virtually nontoxic after single ingestion of small quantity

Skin Contact

mild skin irritation

Eye Contact

slight eye irritation

Inhalation

virtually nontoxic by short-term inhalation

Immediate, Delayed, and Chronic Effects

SHORT-TERM EXPOSURE

Potential Immediate Effects

Ingestion

drying, burning, or irritation of the mouth and throat; gastrointestinal disturbances

Skin Contact

none known

Eye Contact

none known

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

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)

LD₅₀: >5000 mg/kg (derived)

Dermal (Rabbit)

LD₅₀: >5000 mg/kg (derived)

Inhalation (Rat)

LC₅₀: >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

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

Aquatic Toxicity

Vertebrates (Fish)

Acute Toxicity

LC₅₀: 34 mg/L (derived)

Chronic Toxicity

NOEC: not available

Invertebrates (Water Flea)

Acute Toxicity

LC₅₀: 21 mg/L (derived)

Chronic Toxicity

NOEC: not available

Aquatic Plants (Freshwater Algae)

Acute Toxicity

EC₅₀: 60 mg/L (derived)

Chronic Toxicity

NOEC: not available

Terrestrial Toxicity

Invertebrate (Earthworm)

LC₅₀: >100 mg/L (derived)

Persistence and Degradability

Persistence

not expected to be persistent

Degradability

rapidly degradable

Bioaccumulative Potential

Bioaccumulation Potential Assessment

does not bioaccumulate

Bioaccumulation Factor

not available

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 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. Harmful to aquatic life—do not pour into waterways. Contains aggressive solvents, which may dissolve PVC pipes and fittings—do not pour down drain.

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

Shipping Description

not regulated by ICAO

Transportation by Water – IMO/IMDG

Shipping Description

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**

4% as “General Purpose Cleaner, non-aerosol” (complies)

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

4% as “General Purpose Cleaner, non-aerosol” (complies)

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

0.5% as “General Purpose Cleaner, non-aerosol” (complies through sell-through period)

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.

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	1	
Reactivity	0	
Protective Equipment	B	
		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

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

July 15, 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 numbers 1140 and 1190 manufactured on or after January 1, 2015.

Document Author

Dan Nowlan

Legal Disclaimer

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