Safety Data Sheet

Section 1 – Identification of the Mixture and of the Company

Product Identification

Primary Identifier(s) Used on the Label
Berryman *CHEM-DIP CARBURETOR & PARTS CLEANER*
Product Synonym(s)
blend "CD-A-INT"
Product Number(s)
0996

Relevant Identified Uses and Uses Advised Against

Recommended Uses
immersion cleaner for carburetor and related parts
Uses Advised Against
not for use in some applications

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
Acute Inhalation – Category 4
Skin Irritant – Category 2
Eye Irritant – Category 2A
Specific Target Organ Toxicity - Repeated Exposure – Category 2 (blood/blood system)

Allocation of Label Elements

Chemical Identity
Berryman *CHEM-DIP CARBURETOR & PARTS CLEANER*
Pictograms

Signal Word
WARNING
Hazard Statements
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.
H373 – May cause damage to blood/blood system through prolonged or repeated exposure.

Prevention Precautionary Statements

P101 – Keep out of reach of children.
P102 – Read label before use.
P260 – Do not breathing fumes, gas, mist, vapor, or spray.
P264 – Wash thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
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.
P314 – Get medical advice/attention 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 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

none

Disposal Precautionary Statements

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	40-55%
Heterocyclic Amine Derivatives	mixture	15-20%
2-(Butoxyethoxy)ethanol	112-34-5	8-15%
2-Butoxyethanol	111-76-2	8-10%
Ethoxylated Alkyl Amines	mixture	1-5%

Section 4 – First Aid Measures

Description of First Aid Measures

Ingestion

Drink 1-2 glasses of fruit juice 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 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

headache and lightheadedness; 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 spontaneous vomiting, severe headache, or loss of consciousness, seek immediate medical attention.

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

Unsuitable Extinguishing Media

none known

Special Hazards/Considerations

Combustion Products

Combustion of dehydrated material in the presence of air may yield various hydrocarbons, organic oxygenates, amines, and 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

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

none—product does not support combustion

Section 6 – Accidental Release Measures

Personal and Environmental Precautions

Personal Precautions

Avoid breathing fumes, gas, mist, vapor, or spray. Wash thoroughly 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 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 after handling.

Environmental Precautions

Conditions and Considerations for Safe Storage

Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Component	CAS RN	OSHA PEL	ACGIH TLV
2-(Butoxyethoxy)ethanol	112-34-5	NE	10 ppm
2-Butoxyethanol	111-76-2	50 ppm	20 ppm

Exposure Controls

Appropriate Engineering Controls

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

PPE Overview

Hand Protection

Use of gloves is recommended.

Eye Protection

Use of a full face shield in conjunction with safety glasses with wrap-around lens or goggles is strongly 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, dark amber to dark brown

Odor

mild, solvent

Odor Threshold

0.5 ppm

pH

9.5 - 10.5

Freezing Point

< 0°F

Boiling Range

212 - 720°F

Flash Point and Method

none, as supplied, by closed-cup tester

Explosion Limits in Air

0.7 - 7.7% by volume (composite)

Evaporation Rate

0.2 (n-Butyl Acetate=1.0)

Vapor Pressure, as supplied

9.4 mm of Hg at 68°F

Vapor Density

>1.0

Specific Gravity

1.04 at 68°F

Density

8.66 lb/gal at 68°F

Water Solubility

completely soluble

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

-1.5 (composite)

Viscosity

3 cSt at 68°F

Volatility

70 - 80% by weight

Auto-ignition temperature

unknown

Other Information

VOC Content

10% by weight (for consumer products)

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; metallic aluminum; and powered zinc, aluminum, magnesium, potassium, and sodium

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

virtually nontoxic after single ingestion of small quantity

Skin Contact

moderate irritation

Eye Contact

moderate eye irritation

Inhalation

headache, lightheadedness

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

drying of the skin

Eye Contact

temporary corneal damage

Inhalation

shortness of breath or difficulty breathing, headache, dizziness, nausea and vomiting, loss of consciousness, and death

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

temporary corneal damage

Inhalation

nausea and vomiting, 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
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}: 4790 mg/kg (derived)
Dermal (Rabbit)
LD_{50}: 3210 mg/kg (derived)
Inhalation (Rat)
LC_{50}: 13 mg/L (derived)

Additional Toxicological Information
Skin Irritation/Corrosion (Rabbit)
skin irritant
Serious Eye Damage/Irritation (Rabbit)
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 mobile in soils which may lead to contamination of groundwater.

Aquatic Toxicity
Vertebrates (Fish)
Acute Toxicity
LC_{50}: 4550 mg/L (derived)
Chronic Toxicity
NOEC: 840 mg/L (derived)
Invertebrates (Water Flea)
Acute Toxicity
LC_{50}: 2930 mg/L (derived)
Chronic Toxicity
NOEC: 300 mg/L (derived)

Aquatic Plants (Freshwater Algae)
Acute Toxicity
EC_{50}: 200 mg/L (derived)
Chronic Toxicity
NOEC: 15 mg/L (derived)

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
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})
1.6 (composite)

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.

RCRA Hazardous Waste Code(s) (40 CFR 261.20-33)
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)

2-(Butoxyethoxy)ethanol ("certain glycol ethers") and 2-Butoxyethanol ("certain glycol ethers")

Clean Air Act (42 USC ch. 85 § 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)

75% as "Carburetor and choke cleaner" (complies)

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 STATE REGULATIONS

Ozone Transport Commission (OTC) – Model Rule VOC Limit and Category

10% as "Carburetor or Fuel-injection Air Intake Cleaner" (complies)

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

45% as "Carburetor or Fuel-injection Air Intake Cleaner" (complies)

INTERNATIONAL – SELECT 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

10% as "Carburetor or Fuel-injection Air Intake Cleaner" (complies)

Massachusetts

"Right-to-Know" Legislation – Substance List (105 CMR 670.000)

2-Butoxyethanol

New Jersey

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

2-(Butoxyethoxy)ethanol, 2-Butoxyethanol

Pennsylvania

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

2-(Butoxyethoxy)ethanol, 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	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
May 28, 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 0996 manufactured on or after January 1, 2015.

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