



# 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

none classifiable

#### Health Hazards

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.

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.

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**

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**

<b><u>Component</u></b>	<b><u>CAS RN</u></b>	<b><u>Weight</u></b>
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**

none known

**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.

**Fire Extinguishing Media (cont'd.)****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, ammonia, 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, as-supplied

**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**

<u>Component</u>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
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 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

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

1.1 - 12.5% 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<sub>ow</sub>)

-1.7 (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)

20% by weight (EPA Method 24)

#### VOC Composite Partial Pressure, PP<sub>C</sub>

0.1 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

May form peroxides in the presence of air.

### Conditions to Avoid

none specific

### Incompatible Materials

incompatible with strong acids; oxidizers; reducing agents; metallic aluminum and aluminum alloys; and powdered 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

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**

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<sub>50</sub>: 4800 mg/kg (derived)

#### **Dermal (Rabbit)**

LD<sub>50</sub>: 3210 mg/kg (derived)

#### **Inhalation (Rat)**

LC<sub>50</sub>: 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<sub>50</sub>: >100 mg/L (derived)

##### **Chronic Toxicity**

NOEC: >100 mg/L (derived)

#### **Invertebrates (Water Flea)**

##### **Acute Toxicity**

LC<sub>50</sub>: >100 mg/L (derived)

##### **Chronic Toxicity**

NOEC: >100 mg/L (derived)

**Aquatic Plants (Freshwater Algae)**

**Acute Toxicity**

EC<sub>50</sub>: >100 mg/L (derived)

**Chronic Toxicity**

NOEC: >100 mg/L (derived)

**Terrestrial Toxicity**

**Invertebrate (Earthworm)**

LC<sub>50</sub>: 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<sub>oc</sub>)**

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 REGIONAL CONSIDERATIONS***

**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)

***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**

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	<u>Hazard Index</u>
Flammability	0	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  
 EC<sub>50</sub> – Median Effective Concentration  
 IATA – International Air Transport Association  
 ICAO – International Civil Aviation Organization  
 IMDG – International Maritime Dangerous Goods  
 IMO – International Maritime Organization  
 LC<sub>50</sub> – Median Lethal Concentration  
 LD<sub>50</sub> – 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 8, 2016

#### Date of Previous Revision

May 28, 2015

#### Primary Revision Change(s)

general update

#### Document Applicability

This safety data sheet only applies to part number 0996 manufactured on or after January 1, 2015.

### 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.