



# Safety Data Sheet

## Section 1 – Identification of the Mixture and of the Company

### Product Identification

#### Primary Identifier(s) Used on the Label

Berryman *PROFESSIONAL CHEM-DIP CARBURETOR & PARTS CLEANER*

#### Product Synonym(s)

blend "2AA-E"

#### Product Number(s)

0901, 0905, and 0955

### Relevant Identified Uses and Uses Advised Against

#### Recommended Uses

immersion carburetor and related parts cleaner

#### Uses Advised Against

not for use in heated or automatic parts washers

### 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

Acute Oral – Category 4

Skin Irritant – Category 2

Eye Damage – Category 1

Respiratory Sensitizer – Category 1A

Germ Cell Mutagen – Category 2

Carcinogen – Category 1A

Developmental/Reproductive Toxicant – Category 1A

Specific Target Organ Toxicity - Single Exposure – Category 3 (respiratory tract irritant and narcotic effects)

Specific Target Organ Toxicity - Repeated Exposure – Category 2 (blood/blood system, central nervous system, liver, lungs)

Environmental Hazard - Acute – Category 3

### Allocation of Label Elements

#### Chemical Identity

Berryman *PROFESSIONAL CHEM-DIP CARBURETOR & PARTS CLEANER*

#### Pictograms



**Signal Word**

DANGER

**Hazard Statements**

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H321 – Specific treatment (see supplemental first aid instructions this label/document).

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 – May cause respiratory irritation.

H336 – May cause drowsiness or dizziness.

H341 – Suspected of causing genetic defects.

H350 – May cause cancer.

H360 – May damage fertility or the unborn child.

H373 – May cause damage to organs through prolonged or repeated exposure.

H402 – Harmful to aquatic life.

**Prevention Precautionary Statements**

P101 – Keep out of reach of children.

P102 – Read label before use.

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P260 – Do not breathe fumes, gas, mist, vapor, or spray.

P264 – Wash thoroughly with soap and water after handling.

P270 – Do not eat, drink or smoke when using this product.

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.

P284 – In case of inadequate ventilation, wear respiratory protection.

**Response Precautionary Statements**

P310 – Immediately call POISON CONTROL CENTER, hospital emergency room, or doctor.

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.”

P330 – Rinse mouth.

P331 – Do NOT induce vomiting.

P301/P312 – IF SWALLOWED: Call POISON CONTROL CENTER, hospital emergency room, or doctor if you feel unwell.

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.

P308/P313 – If exposed or concerned, get medical advice/attention.

P333/P313 – If skin irritation or rash occurs, get medical advice/attention.

P342/P311 – If experiencing respiratory symptoms, call POISON CONTROL CENTER, hospital emergency room, or doctor.

P362/364 – Take off contaminated clothing and launder before reuse.

**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

**Section 3 – Composition/Information on Ingredients**

<u>Component</u>	<u>CAS RN</u>	<u>Weight</u>
Methylene Chloride	75-09-2	30-40%
Toluene	108-88-3	8-10%
Cresols (mixed isomers)	1319-77-3	5-10%
Tetrachloroethylene	127-18-4	2-5%
Sodium Dichromate	7789-12-0	<1%

## Section 4 – First Aid Measures

### Description of First Aid Measures

#### Ingestion

Do NOT induce vomiting. Rinse mouth. Drink 1-2 glasses of milk or water. Call poison control center, hospital emergency room, or doctor if you feel unwell.

#### Eye Contact

Immediately call poison control center, hospital emergency room, or doctor. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

#### Skin Contact

Wash with plenty of soap and water or shower. If skin irritation or rash occurs, 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

respiratory tract irritation; headache and lightheadedness; narcotic effects, including dizziness, drowsiness, and loss of coordination

#### Delayed

tingling, 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, impaired vision, spontaneous vomiting, or loss of consciousness, seek immediate medical attention.

#### Specific Treatment and Notes to Physician

Avoid administration of sympathomimetic drugs, such as epinephrine. 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 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

### Special Hazards/Considerations

#### Combustion Products

Combustion of dehydrated material in the presence of air may yield hydrocarbons; chlorinated hydrocarbons; organic oxygenates; oxides of carbon and chlorine; phosgene; and hydrochloric acid/hydrogen chloride gas.

### Special Protective Equipment and Precautions for Firefighters

#### Special Protective Equipment

Firefighters should employ SCBA and full protective gear, including shield, as product is comprised of low-boiling solvents and 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

Do not handle until all safety precautions have been read and understood. Do not breathe fumes, gas, mist, vapor, or spray. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye or face protection. In case of inadequate ventilation, wear respiratory 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**

Do not handle until all safety precautions have been read and understood. Do not breathe fumes, gas, mist, vapor, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation, wear respiratory protection. Wear protective gloves, protective clothing, and eye or face protection. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product.

**Environmental Precautions**

Avoid release to the environment.

**Conditions and Considerations for Safe Storage**

Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children. Store locked-up.

**Section 8 – Exposure Controls/Personal Protection**

<u>Component</u>	<u>CAS RN</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Methylene Chloride	75-09-2	25 ppm	50 ppm
Toluene	108-88-3	200 ppm	20 ppm
Cresols (mixed isomers)	1319-77-3	5 ppm	5 ppm
Tetrachloroethylene	127-18-4	100 ppm	25 ppm
Sodium Dichromate	7789-12-0	5 µg/m <sup>3</sup>	50 µg/m <sup>3</sup>

**Exposure Controls****Appropriate Engineering Controls**

This product contains hexavalent chromium (“chromium VI”) and methylene chloride (“dichloromethane”) and must be used in accordance with §29 CFR 1910.1026 and 1052. If practical, use outside with positive cross-ventilation in order to reduce accumulation of vapor and minimize exposure.

**PPE Overview****Hand Protection**

Use of chemical-resistant gloves (EVAL, neoprene, nitrile/Buna-N, PVC, or Viton) 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. Use of chemical-resistant sleeves or 15-18" gloves is strongly recommended. Use of a chemical-resistant apron and chemical-resistant boots are recommended.

**Section 9 – Physical and Chemical Properties****Information on Basic Physical and Chemical Properties****Physical State**

biphasic liquid

**Appearance**

Clear to hazy, yellow (top); clear, amber (bottom)

**Odor**

antiseptic

**Odor Threshold**

1 ppb

**pH**

9 - 10 (aqueous phase)

**Freezing Point**

32°F (approximate)

**Boiling Range**

104 - 396°F

**Flash Point and Method**

none by closed-cup tester

**Explosion Limits in Air**

4.2 - 8.7% by volume

**Evaporation Rate**

2.8 (n-Butyl Acetate=1.0)

**Vapor Pressure, as supplied**

132 mm of Hg at 68°F

**Vapor Density**

>1.0

**Specific Gravity**

1.0 (top), 1.18 - 1.19 (bottom) at 68°F

**Density**

8.4 lb/gal (top), 9.85 lb/gal (bottom) at 68°F

**Water Solubility**

completely soluble (aqueous phase)

**n-Octanol/Water Partition Coefficient (log P<sub>ow</sub>)**

1.8 (organic phase; composite)

**Viscosity**

0.7-1.0 cSt at 68°F

**Volatility**

95 - 98% by weight

**Auto-ignition Temperature**

530°F (composite)

**Decomposition Temperature**

unknown

**Other Information**

**VOC Content**

16% by weight (EPA Method 24)

10% by weight (consumer products)

**VOC Composite Partial Pressure, PPC**

0.9 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): 2-methyl-2-butene (“amylene”) and/or butylene oxide

**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.

**Incompatible Materials**

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

**Hazardous Decomposition Products**

hydrochloric acid/hydrogen chloride gas and phosgene

## 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, cramping, nausea, and vomiting

#### Skin Contact

severe skin irritation; numbness or tingling of the skin

#### Eye Contact

significant visual impairment/blindness

#### Inhalation

respiratory tract irritation; headache, lightheadedness; narcotic effects, including dizziness, drowsiness, and loss of coordination

### Immediate, Delayed, and Chronic Effects

#### **SHORT-TERM EXPOSURE**

##### Potential Immediate Effects

##### **Ingestion**

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

##### **Skin Contact**

drying of the skin

##### **Eye Contact**

blindness, temporary corneal damage

##### **Inhalation**

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

##### Potential Delayed Effects

##### **Ingestion**

aspiration pneumonitis, cyanosis, coma, death

##### **Skin Contact**

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

##### **Eye Contact**

blindness, temporary corneal damage

##### **Inhalation**

nausea and vomiting, fatigue

#### **LONG-TERM EXPOSURE**

##### Potential Immediate Effects

none known

##### Potential Delayed Effects

brain/central nervous system (CNS) effects, liver damage

##### Potential Chronic Health Effects

##### **Carcinogenicity**

##### **International Agency for Research on Cancer (IARC) Monographs**

Group 1 – Known Human Carcinogen (Sodium Dichromate)

Group 2A – Probable Human Carcinogen (Tetrachloroethylene)

Group 2B – Possible Human Carcinogen (Methylene Chloride)

##### **National Toxicology Program (NTP) Report on Carcinogens**

Sodium Dichromate (known carcinogen), Dichloromethane and Tetrachloroethylene (reasonably anticipated carcinogens)

##### **Mutagenicity / Genetic Toxicity**

possible human mutagen (Sodium Dichromate)

##### **Teratogenicity**

not suspected of being a human teratogen

##### **Developmental Effects**

Sodium Dichromate (known developmental toxicant), Toluene (possible 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**

blood/blood system; brain/central nervous system (CNS); and liver effects

### **Numerical Measures of Acute Toxicity**

#### **Oral (Rat)**

LD<sub>50</sub>: 1300 mg/kg (derived)

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

LD<sub>50</sub>: 3200 mg/kg (derived)

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

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

### **Additional Toxicological Information**

#### **Skin Irritation/Corrosion (Rabbit)**

severe skin irritant

#### **Serious Eye Damage/Irritation (Rabbit)**

eye corrosion

#### **Respiratory Sensitization**

high-frequency respiratory sensitizer (Sodium Dichromate)

#### **Skin Sensitization**

low-frequency skin sensitizer (Sodium Dichromate)

#### **Aspiration Hazard**

probable aspiration hazard

## **Section 12 – Ecological Information**

### **General Ecological Assessment/Overview**

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

### **Aquatic Toxicity**

#### **Vertebrates (Fish)**

##### **Acute Toxicity**

LC<sub>50</sub>: 42 mg/L (derived)

##### **Chronic Toxicity**

NOEC: 13 mg/L (derived)

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

##### **Acute Toxicity**

LC<sub>50</sub>: 20 mg/L (derived)

##### **Chronic Toxicity**

NOEC: not available

#### **Aquatic Plants (Freshwater Algae)**

##### **Acute Toxicity**

EC<sub>50</sub>: 17 mg/L (derived)

##### **Chronic Toxicity**

NOEC: not available

### **Terrestrial Toxicity**

#### **Invertebrate (Earthworm)**

LC<sub>50</sub>: not available

### **Persistence and Degradability**

#### **Persistence**

very persistent (Tetrachloroethylene)

#### **Degradability**

non-rapidly degradable

### **Bioaccumulative Potential**

#### **Bioaccumulation Potential Assessment**

does not bioaccumulate

#### **Bioaccumulation Factor**

90 (Toluene)

## 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>)

3.5 (composite, organic phase)

## 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 animal life—do not pour on ground. 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 be subject to RCRA regulations and classified as: F001 – spent halogenated solvent used in degreasing

## Section 14 – Transportation Information

### Transportation by Ground – US Department of Transportation

#### Shipping Description

UN2810, Toxic, Liquids, Organic, n.o.s., (contains Sodium Dichromate and Dichloromethane), 6.1, PG III

#### Exemption Eligibility

When shipped by ground, this product may be eligible for a “Limited Quantity” exception per §49 CFR 173.153.

### Transportation by Air – ICAO/IATA

#### Shipping Description

UN2810, Toxic, Liquids, Organic, n.o.s., (contains Sodium Dichromate and Dichloromethane), 6.1, 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

UN2810, Toxic, Liquids, Organic, n.o.s., (contains Sodium Dichromate and Dichloromethane), 6.1, 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)

Sodium Dichromate (as “chromium compounds”), Dichloromethane, Toluene, Cresols, Tetrachloroethylene

##### Section 311/312 – Hazard Categorization (40 CFR 370.40)

acute toxicity, chronic toxicity

##### Section 313 – Toxic Chemicals (40 CFR 372.65)

Sodium Dichromate (as “chromium compounds”), Dichloromethane, Toluene, Cresols, Tetrachloroethylene



**Clean Air Act (42 USC 7401, et seq.)**

**Section 112 – Hazardous Air Pollutants**

Sodium Dichromate (as “chromium compounds”), Methylene Chloride, Toluene, Cresols, Perchloroethylene

**Section 183(e) – Commercial and Consumer Products – VOC Limit and Category (40 CFR 59 subpart C)**

75% as “Carburetor and choke cleaner” (complies)

**National Air Emission Standards for Hazardous Air Pollutants (NESHAP)**

Complies with the NESHAP regulations for “Halogenated Solvent Cleaning” found in §40 CFR 63 by meeting the definition of a “batch cold cleaning machine” specified in §40 CFR 63.462 and by law must be operated by the end-user in a manner consistent with the regulation.

**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.

**Specifically Regulated Substances (29 CFR 1910.1000, et seq.)**

This product contains hexavalent chromium (“chromium (VI)”) and methylene chloride (“dichloromethane”) and must be used in accordance with §29 CFR 1910.1026 and 1052.

**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: Harmful or fatal if swallowed. Vapor harmful. Causes eye and skin burns. 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 and choke cleaner” (complies)

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

45% as “Carburetor and choke 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 subject to the labeling requirements of Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986 and must bear the cautionary statement: WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**Air Resources Board (ARB/CARB)**

**Regulation for Reducing Emissions from Consumer Products – VOC Limit and Category**

10% as “Carburetor and choke cleaner” (complies)

**Massachusetts**

**“Right-to-Know” Legislation – Substance List (105 CMR 670.000)**

Dichloromethane, Toluene, Cresols, Perchloroethylene, Sodium Dichromate

**New Jersey**

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

Methylene Chloride, Toluene, Cresols (mixed isomers), Perchloroethylene, Sodium Dichromate

**Pennsylvania**

**“Right-to-Know” Legislation – Hazardous Substance List (Chapter 323)**

Dichloromethane, Methylbenzene, Methyl Phenol, Tetrachloroethylene, Sodium Dichromate

***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	* 3	<b>Hazard Index</b> Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4
Flammability	0	
Reactivity	0	
Protective Equipment	X	

### 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

June 29, 2016

#### Date of Previous Revision

May 28, 2015

#### Primary Revision Change(s)

numerous due to formulation change

#### Document Applicability

This safety data sheet only applies to part number(s) 0901, 0905, and 0955 manufactured on or after May 24, 2016.

### Document Author

Dan Nowlan

### 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.