# 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-D"
**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
Skin Sensitizer – Category 1B
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 1 (blood/blood system, central nervous system, liver)
Aspiration Hazard – Category 1
Environmental Hazard - Acute – Category 2
Environmental Hazard - Chronic – 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.
H304 – May be fatal if swallowed and enters airways.
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.
H372 – Causes damage to blood/blood system, brain/central nervous system, and liver through prolonged or repeated exposure.
H401 – Toxic to aquatic life.
H412 – Harmful to aquatic life with long-lasting effects.

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 after handling.
P270 – Do not eat, drink or smoke when using this product.
P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing should not be allowed out of the workplace.
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.
P314 – Get medical advice/attention 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.
P363 – Launder contaminated clothing before reuse.
P301/P310 – IF SWALLOWED: Immediately call POISON CONTROL CENTER, hospital emergency room, or doctor.
P302/P352 – IF ON SKIN: Wash with plenty of 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

| Component | CAS RN | Weight |
|---|---|---|
| Methylene Chloride | 75-09-2 | 30-40% |
| Xylenes (mixed isomers) | 1330-20-7 | 8-10% |
| Cresylic Acid (mixed isomers) | 1319-77-3 | 5-10% |
| Ethylbenzene | 100-41-4 | 2-3% |
| Sodium Dichromate | 7789-12-0 | 1% |

# Section 4 – First Aid Measures

## Description of First Aid Measures

### Ingestion

Immediately call poison control center, hospital emergency room, or doctor. Do NOT induce vomiting. Rinse mouth. Drink 1-2 glasses of fruit juice, milk, or water.

### 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 water or shower. If skin irritation or rash occurs, get medical advice/attention.

### Inhalation

Immediately call poison control center, hospital emergency room, or doctor. Remove person to fresh air and keep comfortable.

## 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

rash, 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.

### 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 of dehydrated material in the presence of air may yield hydrocarbons; organic oxygenates; oxides of carbon, chlorine, and chromium (including hexavalent chrome); 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 composed 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

# 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 after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. 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 after handling. Contaminated work clothing should not be allowed out of the workplace. 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

| Component | CAS RN | OSHA PEL | ACGIH TLV |
|---|---|---|---|
| Methylene Chloride | 75-09-2 | 25 ppm | 50 ppm |
| Xylenes (mixed isomers) | 1330-20-7 | 100 ppm | 100 ppm |
| Cresylic Acid (mixed isomers) | 1319-77-3 | 5 ppm | 5 ppm |
| Ethylbenzene | 100-41-4 | 100 ppm | 100 ppm |
| Sodium Dichromate (as Cr VI) | 7789-12-0 | 5 µg/m$^3$ | 50 µg/m$^3$ |

### 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, or Viton) is required.

**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, yellow (top); clear, light 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**
2.5 (n-Butyl Acetate=1.0)
**Vapor Pressure, as supplied**
125 mm of Hg at 68°F
**Vapor Density**
>1.0
**Specific Gravity**
1.0 (top); 1.13-1.14 (bottom) at 68°F
**Density**
8.4 lb/gal (top); 9.45 lb/gal (bottom)
**Water Solubility**
completely soluble (aqueous phase)
**n-Octanol/Water Partition Coefficient (log $P_{ow}$)**
1.7 (organic phase; composite)
**Viscosity**
0.7-1.0 cSt at 68°F
**Volatility**
95 - 98% by weight
**Auto-ignition temperature**
510°F (composite)

### Other Information

**VOC Content**
18% by weight (EPA Method 24)
12% 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 powered 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**
burning sensation; 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; nausea and vomiting

### 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, loss of consciousness

*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 2B – Possible Human Carcinogen (Methylene Chloride, Ethylbenzene)

**National Toxicology Program (NTP) Report on Carcinogens**
Sodium Dichromate, Methylene Chloride, Ethylbenzene

**Mutagenicity / Genetic Toxicity**
possible human mutagen (Sodium Dichromate)

Teratogenicity
not suspected of being a human teratogen
Developmental Effects
known developmental toxicant (Sodium Dichromate)
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)
$LD_{50}$: 1220 mg/kg (derived)
Dermal (Rabbit)
$LD_{50}$: 3480 mg/kg (derived)
Inhalation (Rat)
$LC_{50}$: 75 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
known aspiration hazard

## Section 12 – Ecological Information

### General Ecological Assessment/Overview

Harmful to animal life. Acutely toxic to aquatic life. Harmful to aquatic life with long-lasting effects. Very mobile in soils which may lead to contamination of groundwater.

### Aquatic Toxicity

Vertebrates (Fish)
Acute Toxicity
$LC_{50}$: 28 mg/L (derived)
Chronic Toxicity
NOEC: 310 mg/L (derived)
Invertebrates (Water Flea)
Acute Toxicity
$LC_{50}$: 6.9 mg/L (derived)
Chronic Toxicity
NOEC: 1.5 mg/L (derived)
Aquatic Plants (Freshwater Algae)
Acute Toxicity
$EC_{50}$: 18 mg/L (derived)
Chronic Toxicity
NOEC: 1320 mg/L (derived)

### Terrestrial Toxicity

Invertebrate (Earthworm)
$LC_{50}$: not available

### Persistence and Degradability

Persistence
extremely persistent (Sodium Dichromate)
Degradability
non-rapidly degradable

### Bioaccumulative Potential

Bioaccumulation Potential Assessment
does not bioaccumulate
Bioaccumulation Factor
180 (Xylenes)

### 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. Harmful to animal life—do not pour on ground. Acutely toxic to aquatic life—do not pour into waterways. Harmful to aquatic life with long-lasting effects—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 Methylene Chloride), 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 Methylene Chloride), 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 Methylene Chloride), 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"), Methylene Chloride, Xylenes, Ethylbenzene

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"), Methylene Chloride, Xylenes, Ethylbenzene

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

Section 112 – Hazardous Air Pollutants

Sodium Dichromate (as "chromium compounds"), Methylene Chloride, Xylenes, Ethylbenzene

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.)

Sodium Dichromate, Methylene Chloride

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. Cause 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 or Fuel-injection Air Intake Cleaner"

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

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

### *UNITED STATES – SELECT STATE REGULATIONS*

California

Office of Environmental Health Hazard Assessment (OEHHA)

Proposition 65 – Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65)

This product is subject to the labeling requirements of Prop 65 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 or Fuel-injection Air Intake Cleaner"

Massachusetts

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

Dichloromethane, Xylene, Cresol, Ethylbenzene, Sodium Dichromate

New Jersey

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

Methylene Chloride, Xylenes, Cresols (mixed isomers), Ethylbenzene, Sodium Dichromate

Pennsylvania

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

Dichloromethane, Dimethylbenzene, Methyl Phenol, Ethylbenzene, 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 |
| Flammability | 0 |
| Reactivity | 0 |
| Protective Equipment | X |

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 numbers 0901, 0905, and 0955 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.