



Safety Data Sheet

Section 1 – Identification of the Mixture and of the Company

Product Identification

Primary Identifier(s) Used on the Label

Berryman *PROFESSIONAL METAL PARTS STRIPPER*

Product Synonym(s)

blend "MPS"

Product Number(s)

0217

Relevant Identified Uses and Uses Advised Against

Recommended Uses

paint stripper

Uses Advised Against

not for use in confined areas

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

Flammable Aerosol – Category 1

Health Hazards

Acute Oral – Category 4

Skin Irritant – Category 2

Eye Irritant – Category 2A

Carcinogen – Category 2

Developmental – Category 2

Specific Target Organ Toxicity - Single Exposure – Category 1

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

Aspiration Hazard – Category 1

Environmental Hazard - Acute – Category 3

Allocation of Label Elements

Chemical Identity

Berryman *PROFESSIONAL METAL PARTS STRIPPER*

Pictograms



Signal Word

DANGER

Hazard Statements

H222 – Extremely flammable aerosol.

H229 – Pressurized container—may burst if heated.

H302 – Harmful if swallowed.

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

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

H351 – Suspected of causing cancer.

H361d – Suspected of damaging the unborn child.

H370 – Causes damage to organs.

H373 – May cause damage to blood/blood system, central nervous system, and liver 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.

P210 – Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P211 – Do not spray on an open flame or other ignition source.

P233 – Keep container tightly closed.

P240 – Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers.

P241 – Use explosion-proof electrical, ventilation, and lighting equipment.

P242 – Use only non-sparking tools, such as brass or bronze.

P243 – Take precautionary measures against static discharge.

P251 – Do not pierce or burn, even after use.

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.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, and eye or face protection.

Response Precautionary Statements

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.

P301/P310 – IF SWALLOWED: Immediately call POISON CONTROL CENTER, hospital emergency room, or doctor.

P303/P361/P353 – IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with soap and water or shower.

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/P311 – If exposed or concerned, call POISON CONTROL CENTER, hospital emergency room, or doctor.

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.

P370/P378 – In case of fire, use water fog, dry chemical, alcohol-resistant foam, or carbon dioxide to extinguish.

Storage Precautionary Statements

P405 – Store locked-up.

P403/P235 – Store in a well-ventilated place. Keep cool.

P410/P412 – Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

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	60-70%
Acetone	67-64-1	10-20%
Toluene	108-88-3	10-20%
Carbon Dioxide	124-38-9	3-6%
Methanol	67-56-1	1-5%

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 milk or water.

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

Immediately take off all contaminated clothing. Rinse skin with soap and 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 shortness of breath, difficulty breathing, 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 supports combustion.

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 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, flammable solvents and may vent, rupture, or explode violently at elevated temperatures.

Precautions and Procedures

Pressurized container—may burst if heated. Highly flammable liquid and vapor. Vapors heavier than air. Remove product from area if safe to do so. Use water spray to cool nearby containers.

Section 6 – Accidental Release Measures

Personal and Environmental Precautions

Personal Precautions

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers. Use explosion-proof electrical, ventilation, and lighting equipment. Use only non-sparking tools, such as brass or bronze. 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. 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. Remediate affected area as necessary.

Large Spills

Keep upwind from spill. Remove source from area if safe to do so. Use explosion-proof 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. 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

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Special precautions may be necessary for non-conductive containers. Use explosion-proof electrical, ventilation, and lighting equipment. Use only non-sparking tools, such as brass or bronze. Do not pierce or burn, even after use. Avoid release to the environment.

Conditions and Considerations for Safe Storage

Pressurized container—may burst if heated. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Keep out of reach of children. Store locked-up. Store according to NFPA Aerosol Level 1 recommendations.

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
Acetone	67-64-1	1000 ppm	500 ppm
Toluene	108-88-3	200 ppm	20 ppm
Carbon Dioxide	124-38-9	5000 ppm	5000 ppm
Methanol	67-56-1	200 ppm	200 ppm

Exposure Controls

Appropriate Engineering Controls

This product contains methylene chloride (“dichloromethane”) and must be used in accordance with §29 CFR 1910.1052. 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 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, colorless

Odor

mild, solvent

Odor Threshold

1.6 ppm

pH

not relevant

Freezing Point

<-138°F

Boiling Range

104 - 232°F

Flash Point and Method

<40°F by closed-cup tester

Explosion Limits in Air

8.3 - 18.3% by volume

Evaporation Rate

5.9 (n-Butyl Acetate=1.0)

Vapor Pressure, as supplied

80-120 PSI (typical)

Vapor Density

>1.0

Specific Gravity

1.095 at 68°F

Density

9.12 lb/gal at 68°F

Water Solubility

insoluble

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

1.1 (composite)

Viscosity

0.4 cSt at 68°F

Volatility

100% by weight

Auto-ignition temperature

950°F (composite)

Decomposition temperature

unknown

Other Information**VOC Content**

15% by weight (EPA Method 24)

15% by weight (consumer products)

VOC Composite Partial Pressure, PPC

5.9 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

Avoid direct sunlight and excessive temperatures. Do not puncture, incinerate, or crush. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. If practical, avoid temperatures exceeding flash point.

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, and nausea, vomiting

Skin Contact

moderate irritation

Eye Contact

blurred vision, moderate eye irritation

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

blurred vision, 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

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 2B – Possible Human Carcinogen (Methylene Chloride)

National Toxicology Program (NTP) Report on Carcinogens

Reasonably Anticipated to Be a Human Carcinogen (Methylene Chloride)

Mutagenicity / Genetic Toxicity

not suspected of being a human mutagen / genetic toxicant

Teratogenicity

not suspected of being a human teratogen

Developmental Effects

possible developmental toxicant (Toluene, Methanol)

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**

may affect central nervous system (narcotic effects), respiratory tract (irritation)

Repeated Exposure

may affect blood/blood system, brain/central nervous system (CNS), and liver

Numerical Measures of Acute Toxicity**Oral (Rat)**LD₅₀: 900 mg/kg (derived)**Dermal (Rabbit)**LD₅₀: 2080 mg/kg (derived)**Inhalation (Rat)**LC₅₀: 31 mg/L (derived)**Additional Toxicological Information****Skin Irritation/Corrosion (Rabbit)**

skin irritant

Serious Eye Damage/Irritation (Rabbit)

eye irritant

Respiratory Sensitization

unknown frequency of respiratory sensitization

Skin Sensitization

unknown frequency of skin sensitization

Aspiration Hazard

known 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**LC₅₀: 140 mg/L (derived)**Chronic Toxicity**

NOEC: 11 mg/L (derived)

Invertebrates (Water Flea)**Acute Toxicity**LC₅₀: 25 mg/L (derived)**Chronic Toxicity**

NOEC: not available

Aquatic Plants (Freshwater Algae)**Acute Toxicity**EC₅₀: 18 mg/L (derived)**Chronic Toxicity**

NOEC: not available

Terrestrial Toxicity

Invertebrate (Earthworm)

LC₅₀: not available

Persistence and Degradability

Persistence

somewhat persistent (Methylene Chloride)

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_{oc})

1.5 (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. Harmful to aquatic life—do not pour into waterways. Highly flammable liquid and vapor and 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 F002 – spent halogenated solvent; D001 – ignitable waste

Section 14 – Transportation Information

Transportation by Ground – US Department of Transportation

Shipping Description

UN1950, Aerosols, 2.1 (6.1)

Exemption Eligibility

When shipped by ground, this product may be eligible for a “Limited Quantity” exception per §49 CFR 173.306.

Transportation by Air – ICAO/IATA

Shipping Description

UN1950, Aerosols, 2.1 (6.1)

Exemption Eligibility

When shipped by air, this product may be eligible for a “Limited Quantity” exception.

Transportation by Water – IMO/IMDG

Shipping Description

UN1950, Aerosols, 2.1 (6.1)

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)

Methylene Chloride, Acetone, Toluene, Methanol

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

acute toxicity, chronic toxicity, fire hazard, sudden release of pressure

Section 313 – Toxic Chemicals (40 CFR 372.65)

Methylene Chloride, Toluene, Methanol

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

Section 112 – Hazardous Air Pollutants

Methylene Chloride, Toluene, Methanol

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.

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

This product contains methylene chloride (“dichloromethane”) and must be used in accordance with §29 CFR 1910.1052.

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: Extremely Flammable. Harmful or fatal if swallowed. Vapor harmful. Eye and skin irritant. Contents under pressure. Keep out of the reach of children.

UNITED STATES – SELECT REGIONAL CONSIDERATIONS

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

50% as “Paint Remover or Stripper” (complies)

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

50% as “Paint Remover or Stripper” (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 (Prop 65)

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

50% as “Paint Remover or Stripper” (complies)

Massachusetts

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

Methylene Chloride, Acetone, Toluene, Carbon Dioxide, Methanol

New Jersey

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

Methylene Chloride, Acetone, Toluene, Carbon Dioxide, Methanol

Pennsylvania

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

Dichloromethane, Acetone, Methylbenzene, Carbon Dioxide, Methyl Alcohol

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	Hazard Index
Flammability	3	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

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 Concentration

LD₅₀ – 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 5, 2015

Date of Previous Revision

May 30, 2015

Primary Revision Change(s)

Section 13 – Disposal Considerations; Section 14 – Transportation Information

Document Applicability

This safety data sheet only applies to part numbers 0217 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.