

# Material Safety Data Sheet

Aerosol

Brake Parts Cleaner

September 4, 2009

## SECTION - 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Berryman Products, Inc.  
3800 E. Randol Mill Rd  
Arlington, TX 76011-5434  
800-433-1704

Part No.: 1420  
[www.berrymanproducts.com](http://www.berrymanproducts.com)  
EMERGENCY TELEPHONE NUMBER  
INFOTRAC (800) 535-5053

## SECTION - 2 COMPOSITION INFORMATION

COMPONENT	CAS #	% BY WEIGHT
Naphtha, VM&P	8030-30-6	40 –60%
Methylene Chloride	75-09-2	30 –50%
Perchloroethylene	127-18-4	15 –25%
Carbon Dioxide	124-38-9	1 - 5%

## SECTION - 3 HAZARDS INFORMATION

### EMERGENCY OVERVIEW

**DANGER! FLAMMABLE LIQUID, TOXIC, MARINE POLLUTANT.** Vapor Can Cause Flash Fire. Vapors, Fumes and Mists are Harmful to Eyes. Harmful if Inhaled or Absorbed Through Skin. Harmful if Swallowed, **ASPIRATION HAZARD.** Can Cause Damage to Internal Organs. Contains material that is known to cause cancer. Wash after handling this product and before eating, smoking or using the bathroom. Promptly remove contaminated clothing and wash before reuse. Destroy contaminated leather articles. SARA Title III Reporting.

### ACUTE –Effects Of Single Overexposure

**EYES** Product contact with eyes can cause irritation. Vapor effects may cause eye irritation experienced as discomfort, redness or pain. Can cause moderate corneal injury and effects may be slow to heal.

**SKIN** Harmful if absorbed through skin. Product contact with skin can cause irritation, itching, reddening and possible scaling and blistering.

**INHALATION** Product is irritating to respiratory tract, nasal passages. Exposure can increase Carbon Monoxide level of blood can cause dizziness, drowsiness, depression, narcosis, pulmonary edema, chest pain, coughing and headache.

**INGESTION** Harmful If Swallowed. Swallowing this material may cause stomach or intestinal upset with pain, central nervous system depression is possible ranging from light headedness to unconsciousness

### CHRONIC –Prolonged or Repeated Overexposure

**EYES** Product contact with eyes can cause irritation and corneal damage. Prolonged contact can cause conjunctivitis, blurred or dimmed vision.

**SKIN** Product can be absorbed through skin and can affect Target Organs. Effects include Central Nervous System depression, narcosis and Peripheral Nervous System. Skin absorption may cause similar effects as from breathing or swallowing.

**INHALATION** Product is irritating to respiratory tract and can affect Target Organs. Can increase Carbon Monoxide level of blood and cause Central Nervous System depression which can cause death. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage sometimes referred to as "Solvent or Painter's Syndrome". Breathing high concentrations of this material in an enclosed space or by intentional abuse can cause irregular heartbeats which can cause death.

**INGESTION** Harmful or Fatal If Swallowed. Can affect Target Organs. Liver, Kidney, Heart and Brain damage can occur.

**ASPIRATION HAZARD** Vomiting can cause serious inflammation and accumulation of fluids in the lungs. (Pneumonitis and pulmonary edema)

**HAZARD TARGET ORGANS** Aspiration into the lungs can produce severe lung damage and is a medical emergency. Kidneys, Liver, Spleen, Adrenals, Eyes, Mucous Membranes, Lungs, Hearing, Heart, Blood, Skin, Central Nervous System, Peripheral Nervous System and Cardiovascular System.

**CONDITIONS AGGRAVATED** Persons with Skin, Liver, Kidney or Heart problems should avoid use. Alcohol can lower the amount needed to cause health problems so avoid drinking alcohol before, during or after being exposed.

### CARCINOGENIC –Product contains amounts greater than 0.1% of following.

CHEMICAL	CAS#	NTP	ACGIH	IARC	PERCENT
Methylene Chloride	75-09-2	(2) Some evidence	(A2) Suspected for human	(2B) Possible for human	30 –50%
Perchloroethylene	127-18-4	(2) Some evidence	(A3) Proven for animal	(2A) Probable for human	15 –25%

### MUTAGENIC AND TERATOGENIC EFFECTS –May cause fetal and reproductive abnormalities.

CHEMICAL	CAS#	MUTAGENIC	TERATOGENIC	DEVELOPMENTAL	PERCENT
Methylene Chloride	75-09-2	Possible	Possible	Probable	30 –50%
Perchloroethylene	127-18-4	Possible	Possible	Possible	15 –25%

HAZARD RATINGS	Health	Flammability	Reactivity	Personal Protection
HMIS	3	3	0	X = Ask Supervisor

SECTION - 4		FIRST AID MEASURES					
EYE CONTACT	Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Remove contact lenses if possible, but do not force. Obtain immediate medical attention.						
SKIN CONTACT	Immediately flush skin with plenty of water for at least 15 minutes while removing any contaminated clothing or shoes. Cover the irritated skin with an emollient. Obtain medical attention if irritation persists. Wash any contaminated clothing before reuse. Destroy contaminated leather articles.						
INHALATION	Remove person to fresh air, if they have problem breathing or any signs of overexposure, obtain immediate medical attention.						
INGESTION	DO NOT INDUCE VOMITING. If person is fully conscious give one to two glasses of water to dilute and obtain immediate medical attention.						
ASPIRATION HAZARD	If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician or hospital emergency room immediately.						
SECTION - 5		FIRE FIGHTING MEASURES					
COMPONENT (Naphtha, VM&P)	FLASH POINT 10°C (50°F)	METHOD TAG Closed Cup		NFPA Class Class IB	FLAMMABILITY CLASSIFICATION Flammable Liquid		
FLAMMABLE LIMITS	LOWER 1.4%	UPPER 12.6%		AUTO-IGNITION TEMPERATURE 232°C (449.6°F)			
EXPLOSION HAZARDS	Mechanical Impact Not Expected			Static Discharge Expected			
Reactive with	Acids and oxidizers such as chlorine. These include liquid bleach, sodium or calcium hypochlorite, halogens, permanganates and peroxides.						
Extinguishing Media	Use DRY chemicals, CO <sub>2</sub> , alcohol foam. Water spray to cool or protect exposed materials.						
Fire Fighting Procedures	May explode if ignited in an enclosed area. Flashback along vapor trail may occur.						
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear. (Full Bunker Gear)						
Hazardous Decomposition	Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide and other toxic fumes.						
HAZARD RATINGS	Health	Flammability	Reactivity	Specific Hazard			
NFPA	2	3	0				
SECTION - 6		ACCIDENTAL RELEASE MEASURES					
SPILL OR LEAK	DANGER! FLAMMABLE LIQUID AND VAPOR. Warn personal to move away and eliminate ignition sources and ventilate area. Wear the appropriate safety equipment. Contain spill or stop the flow and absorb with an inert material and place in an appropriate waste disposal unit and dispose of in accordance with all State and Federal Guidelines and Regulations.						
SECTION - 7		HANDLING AND STORAGE					
HANDLING	DANGER! FLAMMABLE LIQUID, TOXIC, MARINE POLLUTANT. Avoid flame, sparks static discharge and all electric devices. Avoid inhalation of vapors or contact with eyes or skin. Do not allow material to contaminant water sources. Open container slowly to relive pressure. Keep containers closed tightly when not in use. Avoid unnecessary transfers. Keep degreasing tanks covered when not in use. Place rags used for cold cleaning in a closed container (preferably a non-aluminum, all-metal safety container) immediately after use. Can accumulate static discharge by flow or agitation. The use of explosion-proof equipment is recommended and may be required. Wash thoroughly after handling and do not wear any contaminated clothing or shoes. Destroy any contaminated leather articles.						
STORAGE	Keep container tightly closed when not in use and store in a cool, well-ventilated area away for direct sunlight or any ignition sources. Use proper signage. Store only in approved containers. Keep away from incompatible materials listed in Section 10. Storage should meet OSHA and NFPA standards for Class-IB flammable liquids.						
SECTION - 8		EXPOSURE CONTROLS / PERSONAL PROTECTION					
EXPOSURE LIMITS COMPONENT	ACGIH TWA8	ACGIH TWA8	OSHA PEL TWA8	OSHA PEL TWA8	ACGIH STEL	ACGIH STEL	Significant Exposure
Naphtha, VM&P	100 ppm		100 ppm				
Methylene Chloride	50 ppm A3		25 ppm		100 ppm		
Perchloroethylene	25 ppm A3		75 ppm				
Carbon Dioxide	5,000 ppm	9,000 mg/m <sup>3</sup>	5,000 ppm	9,000 mg/m <sup>3</sup>	30,000 ppm	54,000 mg/m <sup>3</sup>	

**SECTION - 8 EXPOSURE CONTROLS / PERSONAL PROTECTION CONTINUED****PERSONAL PROTECTION**

EYES	Safety goggles or face shield.	HANDS	Inner Glove: Polyethylene /Ethylene Vinyl Alcohol Outer Glove: Nitrile or Neoprene
BODY	Rubber apron		
FEET	Rubber boots	Note:	Consult Safety Expert for Proper Gloves for "MC"
RESPIRATORY	NIOSH approved positive-pressure air supply respirator	OTHER	Vent hood, eye bath and safety shower.
VENTILATION	Ventilate to keep vapors of this material below the lowest ppm listed above. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus.		
HYGIENE	Wash after handling this product and before eating, smoking or using the toilet.		

Note: Alcohol can lower the amount needed to cause health problems so avoid drinking alcohol before, during or after being exposed.

**SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Liquid	pH	Not applicable
APPEARANCE	Clear	SPECIFIC GRAVITY	1.142
ODOR	Solvent	DENSITY	9.53 lb/gal
SOLUBILITY	< 1%	FREEZE POINT	Not determined
VOLATILES	100%	VAPOR PRESSURE	Not determined
V.O.C.	100%	VAPOR DENSITY	Not determined

**SECTION - 10 STABILITY AND REACTIVITY**

CONDITIONS TO AVOID	Heat sources
INCOMPATIBLE MATERIALS	Extremely reactive and incompatible with concentrated oxygen, acids, bases and oxidizing agents. These include liquid bleach, sodium or calcium hypochlorite, halogens, permanganates and peroxides.
THERMAL DECOMPOSITION	Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide and other toxic fumes.
HAZARDOUS POLYMERIZATION	Will not occur.

**SECTION - 11 TOXICOLOGICAL INFORMATION**

COMPONENT		FORM	SUBJECT	RESULT VALUE	EXPOSURE TIME
Naphtha, VM&P	LD50	Oral	Rat	5 mg/kg	4 Hr
	LD50	Skin	Rabbit	3 mg/kg	4 Hr
Methylene Chloride	LD50	Oral	Rabbit	1,900 mg/kg	
	LC50	Inhaled	Mice	16,000 ppm	
Perchloroethylene	LD50	Oral	Mice	8,850 mg/kg	
	LC50	Inhaled	Mice	6,000 ppm	
Carbon Dioxide	Toxic Effects	Inhaled	Rat	60,000 ppm	24 Hr

**SECTION - 12 ECOLOGICAL INFORMATION**

COMPONENT	SUBJECT	RESULT VALUE	EXPOSURE TIME
Naphtha, VM&P	Harmful to all aquatic life		
Methylene Chloride	No marine environmental information was available on this product.		
Perchloroethylene	Harmful to all aquatic life	Marine Pollutant	

**SECTION - 13 DISPOSAL CONSIDERATIONS**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations.

**ENVIRONMENTAL FATE**

This material, as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the composition containing some or all of its components. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in property permitted facilities, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

SECTION - 14 TRANSPORT INFORMATION														
D.O.T. CLASSIFICATION														
UN NUMBER	PROPER SHIPPING NAME	n.o.s.				HAZARD CLASS								
UN1992	FLAMMABLE LIQUID, TOXIC	(Naphtha, Methylene Chloride, Perchloroethylene)				3, 6.1								
PACKING GROUP	LABEL CODES	REPORTABLE QUANTITY	RESPONSE CODE		MARINE POLLUTANT									
PGII	Flammable liquid, Toxic	100 LBS	160		Yes									
SECTION - 15 REGULATORY INFORMATION														
TSCA		Sec 8(b)	Sec 8(d)	Sec 4(a)	Sec 12(b)									
Chemical Name	CAS No.	Inventory	Health & Safety	Chemical Test Rules	Export Notification									
Naphtha, VM&P	8030-30-6	Yes												
Methylene Chloride	75-09-2	Yes	Yes	Yes										
Perchloroethylene	127-18-4	Yes	Yes	Yes	Yes									
Carbon Dioxide	124-38-9	Yes												
HCS CLASSIFICATION														
Flammable Liquid having a flash point lower than 23°C (73°F). Target organs effects. Contains material's that can cause cancer.														
REPORTABLE QUANTITIES		Extremely Hazardous		Reportable Quantity	Emission Reporting									
Chemical Name	CAS No.	EPCRA TPO	EPCRA RQ	CERCLA RQ	TRI	RCRA	RMP TQ							
		Sec. 302	Sec. 304	Sec. 103	Sec. 313	Code	Sec112r							
Methylene chloride	75-09-2			1,000	Yes	U080								
Perchloroethylene	127-18-4			100	Yes	U210								
SARA		Sec 311			Sec 311 & 312 Hazards									
Chemical Name	CAS No.	Hazardous Chemical		Acute	Chronic	Flammable	Pressure							
							Reactive							
Naphtha, VM&P	8030-30-6	Yes		Yes	Yes	Yes								
Methylene chloride	75-09-2	Yes		Yes	Yes									
Perchloroethylene	127-18-4	Yes		Yes	Yes									
Carbon Dioxide	124-38-9	Yes		Yes	Yes		Yes							
RIGHT TO KNOW		State												
Chemical Name	CAS No.	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Naphtha, VM&P	8030-30-6			Yes			Yes		Yes		Yes	Yes	Yes	
Methylene chloride	75-09-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Perchloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Carbon Dioxide	124-38-9						Yes	Yes	Yes					
CALIFORNIA		WARNING! This product contains chemicals known to the state of California to cause:												
Proposition 65	CAS No.	Birth Defects			Reproductive Harm			Carcinogen		Developmental				
Methylene chloride	75-09-2	Yes			Yes			Yes		Yes				
Perchloroethylene	127-18-4							Yes						
Clean Air & Water Acts		Clean Air Acts			Ozone Class 2			Clean Water Acts			TP			
Chemical Name	CAS No.	HAP	Ozone Class 1					HS		PP				
Methylene chloride	75-09-2	Yes						Yes						
Perchloroethylene	127-18-4	Yes						Yes						
INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical inventories of the following countries														
Chemical Name	CAS No.	Australia	Canada	Europe (EINECS)			Japan	Korea	UK					
Methylene chloride	75-09-2	Yes	Yes	Yes			Yes	Yes	Yes					
Perchloroethylene	127-18-4	Yes	Yes	Yes			Yes	Yes	Yes					

DSCL (EEC)	Code	Definition (Risk-Phrases / Safety-Phrases)		
	R11	Highly Flammable		
	R36/38	Irritating to eyes and skin.		
	R37/38	Irritation to respiratory system and skin.		
	R27/28	Very toxic in contact with skin and if swallowed.		
	R65	Harmful: may cause lung damage if swallowed.		
	S1/2	Keep locked up and out of the reach of children.		
	S16	Keep away from sources of ignition. No Smoking.		
	S23	Do not breathe fumes, vapors or spray		
	S36/37	Wear suitable protective clothing and gloves		
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet		
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label		
WHMIS Classification				
Chemical name	DSL	Class	Definition	
Naphtha, VM&P	Yes	B2	Flammable liquid with a flash point lower than 37.8°C (100°F)	
Methylene chloride	Yes	D2B	Materials Causing Other Toxic Effects - Toxic Material	
Perchloroethylene	Yes	D2B		
SOURCE INFORMATION		CHEMICAL	CAS NO.	REVISION DATE
Sciencelab		Naphtha, VM&P	8030-30-6	10/10/2005
Conchemco, LTD		Methylene chloride	75-09-2	11/12/2006
Conchemco, LTD		Perchloroethylene	127-18-4	11/12/2006
MSDS Legend				
ACGIH	= American Conference of Governmental Industrial Hygienists	NFPA	= National Fire Protection Association	
CAS	= Chemical Abstracts Service Registry	n.o.s.	= Not Otherwise Specified	
CEILING	= Ceiling Limit (15 minutes)	NTP	= National Toxicology Program	
CERCLA	= The Comprehensive Environmental Response, Compensation, and Liability Act	OSHA	= Occupational Safety and Health Administration	
EPA	= Environmental Protection Agency	PEL	= Permissible Exposure Limit (OSHA)	
HAP	= Hazard Air Pollutant	PP	= Priority Pollutant	
HMIS	= Hazardous Materials Identification System	SARA	= Superfund Amendments and Reauthorization Act	
HS	= Hazardous Substance	STEL	= Short Term Exposure Limit (15 minutes)	
IARC	= International Agency for Research on Cancer	TLV	= Threshold Limit Value (ACGIH)	
LEL	= Lower Explosive Limit	TP	= Toxic Pollutant	
NE	= Not Established	TWA	= Time Weighted Average (8 hours)	
		UEL	= Upper Explosive Limit	
		WHMIS	= Worker Hazardous Materials Information System (Canada)	
DISCLAIMER				
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