

Material Safety Data Sheet

Aerosol

Non-Chlorinated Parts Cleaner

August 27, 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.: 2420, 2421
www.berrymanproducts.com
EMERGENCY TELEPHONE NUMBER
INFOTRAC (800) 535-5053

SECTION - 2 COMPOSITION INFORMATION

COMPONENT	CAS #	% BY WEIGHT
Acetone	67-64-1	30 - 60%
Toluene	108-88-3	10 - 15%
Methanol	67-56-1	20 - 30%
Heptanes	426260-76-6	10 - 15%
Carbon Dioxide	124-38-9	1-5%

SECTION - 3 HAZARDS INFORMATION

EMERGENCY OVERVIEW

DANGER! Extremely Flammable Liquid and Vapor. Avoid flame, sparks, static discharge and all electric devices. Vapor May Cause Flash Fire. **TOXIC!** Harmful or Fatal If Swallowed. Harmful if Inhaled. Causes Irritation to Skin, Eyes and Respiratory Tract. Affects Central Nervous System. Do not allow material to contaminant water sources. 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.

SKIN Product contact with skin can cause irritation, dryness and cracking may occur.

INHALATION Product is irritating to respiratory tract, can cause dizziness, drowsiness, depression, narcosis and headaches.

INGESTION Harmful If Swallowed. Swallowing sub lethal doses of this material may cause nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity.

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 with optic neuritis, eye pain, atrophy, concentric visual fields, and photophobia, followed by transient or permanent, complete or bilateral blindness.

SKIN Product can be absorbed through skin and can affect Target Organs. Effects include central nervous system depression, narcosis, optic neuritis, and acidosis. Skin absorption may cause similar effects as from breathing or swallowing.

INHALATION Product is irritating to respiratory tract and can affect Target Organs. Can cause central nervous system depression and peripheral nervous system effects. 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". **TOXIC!** Inhalation of high airborne concentrations can cause headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and death.

INGESTION **TOXIC!** Harmful or Fatal If Swallowed. Can affect Target Organs. Blindness, liver, kidney and brain damage can occur. Swallowing even small amounts of methanol may cause blindness or death.

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

HAZARD Aspiration into the lungs can produce severe lung damage and is a medical emergency.

TARGET ORGANS Kidneys, Liver, Eyes, Hearing, Lungs, Brain, Skin, Central and Peripheral Nervous System, Gastrointestinal and Cardiovascular Systems.

CARCINOGENIC –Product may contain trace amounts of following.

CHEMICAL	CAS#	NTP	ACGIH	IARC	PERCENT
None					> 0.1%

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

CHEMICAL	CAS#	PERCENT
Toluene	108-88-3	10 - 15%
Methanol	67-56-1	20 - 30%

HAZARD RATINGS	Health	Flammability	Reactivity	Personal Protection
HMIS	2	3	0	G = Safety glasses, gloves, vapor respirator

SECTION - 4		FIRST AID MEASURES					
EYE CONTACT	Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids. Be sure to remove any contact lenses. 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 and/or shoes before reuse.						
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. NOTE: Onset of symptoms may be delayed for 18 to 24 hours after ingestion.						
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 (Acetone)	FLASH POINT -16°C (3°F)	METHOD TAG Closed Cup		NFPA Class Class IB	FLAMMABILITY CLASSIFICATION Flammable Liquid		
FLAMMABLE LIMITS	LOWER 2.6%	UPPER 12.8%		AUTO-IGNITION TEMPERATURE 225°C (437°F)			
EXPLOSION HAZARDS	Mechanical Impact Not Expected			Static Discharge Expected			
Reactive with	Acids and oxidizers such as chlorine and other halogens, chromates, perchlorates, peroxides and oxygen.						
Extinguishing Media	Use DRY chemicals, CO ₂ , 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, formaldehyde and other toxic fumes.						
HAZARD RATINGS	Health	Flammability	Reactivity	Specific Hazard			
NFPA	2	3	0				
SECTION - 6		ACCIDENTAL RELEASE MEASURES					
SPILL OR LEAK	DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. Warn personal to move away and eliminate ignition sources and ventilate area. TOXIC! Contains Methanol. 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	EXTREMELY FLAMMABLE LIQUID AND VAPOR, Avoid flame, sparks static discharge and all electric devices. Avoid inhalation of vapors or contact with eyes or skin. Do not puncture or incinerate container. Do not allow material to contaminant water sources. 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.						
STORAGE	Protect aerosol containers from physical damage. 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-1B flammable aerosol.						
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
Acetone	500 ppm A4		1000 ppm		750 ppm		
Toluene	50 ppm		200 ppm				
Methanol	200 ppm	260 mg/m ³	250 ppm	310 mg/m ³	250 ppm	310 mg/m ³	Skin
Heptanes	400 ppm		500 ppm		400 ppm		
Carbon Dioxide	5,000 ppm	9,000 mg/m ³	5,000 ppm	9,000 mg/m ³	30,000 ppm	54,000 mg/m ³	

SECTION - 8		EXPOSURE CONTROLS / PERSONAL PROTECTION CONTINUED			
PERSONAL PROTECTION					
EYES	Safety goggles or face shield.	HANDS	Butyl or neoprene gloves.		
BODY	Rubber Apron.	FEET	Not normally required.		
RESPIRATORY	Wear MSHA/NIOSH approved respirator or equivalent.	OTHER	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.				
SECTION - 9		PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL STATE	Liquid	pH	Not applicable		
APPEARANCE	Clear	SPECIFIC GRAVITY	0.79		
ODOR	Solvent	DENSITY	6.58 lb/gal		
SOLUBILITY	< 80%	FREEZE POINT	Not determined		
VOLATILES	100%	VAPOR PRESSURE	Not determined		
V.O.C.	45%	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, sulfuric acid, nitric acid, sodium or potassium hydroxide, isocyanides, hydrogen peroxide and acetaldehyde.				
THERMAL DECOMPOSITION	Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide, Formaldehyde and other toxic fumes.				
HAZARDOUS POLYMERIZATION	Will not occur.				
SECTION - 11		TOXICOLOGICAL INFORMATION			
COMPONENT		FORM	SUBJECT	RESULT VALUE	EXPOSURE TIME
Acetone	LD50	Oral	Rabbit	5340 mg/kg	
Toluene	LD50	Oral	Rat	2.6 to 7.5 g/kg	
	LC50	Inhaled	Rat	8000 ppm	4 Hr
Methanol	LD50	Oral	Rat	2.6 to 7.5 g/kg	
	LC50	Inhaled	Rat	8000 ppm	4 Hr
	LD50	Oral	Rat	5628 mg/kg	
	LD50	Skin	Rabbit	15800 mg/kg	
Heptanes	LC50	Inhaled	Rat	64000 ppm	4 Hr
	LC50	Inhaled	Rat	103 g/m ³	4 Hr
Carbon Dioxide	LD50	Oral	Rat	> 5 g/kg	
	Toxic Effects	Inhaled	Rat	60,000 ppm	24 Hr
SECTION - 12		ECOLOGICAL INFORMATION			
COMPONENT			SUBJECT	RESULT VALUE	EXPOSURE TIME
Acetone	LC50		Mosquito Fish	13000 mg/L	48 Hr
Toluene	LC50		Fish	10 to 100 mg/L	96 Hr
Methanol	LC50		Goldfish	250 ppm	11 Hr
	LC50		Rainbow trout	8000 mg/L	48 Hr
Heptanes	LC50		Flathead Minnow	29.4 g/L	96 Hr
			No available information		

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 waste material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly 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						
UN1950	AEROSOLS, FLAMMABLE	(Acetone, Methanol, Toluene, Heptanes)						2.1						
PACKING GROUP	LABEL CODES	REPORTABLE QUANTITY	RESPONSE CODE			MARINE POLLUTANT								
	2.1 Flammable 6.1 Toxic	1000 LBS	127 (Acetone) 131 (Methanol)			No								
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						
Acetone	67-64-1	Yes			Yes			Yes						
Toluene	108-88-3	Yes	Yes											
Methanol	67-56-1	Yes	Yes					Yes						
Heptanes	426260-76-6	Yes	Yes											
Carbon Dioxide	124-38-9	Yes												
HCS CLASSIFICATION Flammable Liquid having a flash point lower than 23°C (73°F) (Acetone, Toluene, Methanol, Heptanes)														
REPORTABLE QUANTITIES		Extremely Hazardous		Reportable Quantity		Emission Reporting								
Chemical Name	CAS No.	EPCRA TPQ Sec. 302	EPCRA RQ Sec. 304	CERCLA RQ Sec. 103		TRI Sec. 313		RCRA Code	RMP TQ Sec112r					
Acetone	67-64-1			5,000				U002						
Toluene	108-88-3			1,000		Yes		U220						
Methanol	67-56-1			5,000		Yes		U154						
SARA		Sec 311			Sec 311 & 312 Hazards									
Chemical Name	CAS No.	Hazardous Chemical		Acute	Chronic	Flammable	Pressure	Reactive						
Acetone	67-64-1	Yes		Yes		Yes								
Toluene	108-88-3	Yes		Yes	Yes	Yes								
Methanol	67-56-1	Yes		Yes	Yes	Yes								
Heptane	426260-76-6	Yes		Yes		Yes								
Carbon Dioxide	124-38-9	Y		Y	Y	N	Y	N						
RIGHT TO KNOW		State												
Chemical Name	CAS No.	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Acetone	67-64-1						Yes		Yes					
Toluene	108-88-3	Yes		Yes			Yes		Yes		Yes	Yes		Yes
Methanol	67-56-1	Yes												
Heptane	426260-76-6													
Carbon Dioxide	124-38-9						Y	Y	Y					
CALIFORNIA		WARNING! This product contains chemicals known to the state of California to cause:												
Proposition 65	CAS No.	Birth Defects			Reproductive Harm			Carcinogen		Developmental				
Toluene	108-88-3	Yes			Yes					Yes				
Methanol	67-56-1	Yes			Yes									

SECTION - 15		REGULATORY INFORMATION CONTINUED					
Clean Air & Water Acts		Clean Air Acts		Clean Water Acts			
Chemical Name	CAS No.	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Toluene	108-88-3				Yes		
Methanol	67-56-1				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
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	67-56-1	Yes	Yes	Yes	Yes	Yes	Yes
DSCL (EEC)	Code	Definition (Risk-Phrases / Safety-Phrases)					
Acetone	R11	Highly Flammable.					
Methanol	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.					
	R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.					
	R36/38	Irritating to eyes and skin.					
	R37/38	Irritation to respiratory system and skin.					
	R65	Harmful: may cause lung damage if swallowed.					
	S16	Keep away from sources of ignition. No Smoking.					
	S36/37	Wear suitable protective clothing and gloves.					
	S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).					
	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				
Acetone	Yes	B2	Flammable liquid with a flash point lower than 37.8°C (100°F)				
Toluene	Yes	B2					
Heptane	Yes	B2	Flammable liquid with a flash point lower than 37.8°C (100°F)				
Methanol	Yes	D2B	Materials Causing Other Toxic Effects - Toxic Material				
Carbon Dioxide	Yes	A	Compressed gas				
SECTION - 16		OTHER INFORMATION					
SOURCE INFORMATION		CHEMICAL		CAS NO.		REVISION DATE	
Conchemco, LTD		Acetone		67-64-1		11/12/2006	
CITGO Petroleum Corporation		Toluene		108-88-3		6/18/2007	
EQUISTAR		Methanol		67-56-1		10/16/2001	
ConocoPhillips		Comm Heptane		426260-76-6		03/24/2006	
MSDS Legend							
ACGIH	= American Conference of Governmental Industrial Hygienists	NFPA	= National Fire Protection Association				
		n.o.s.	= Not Otherwise Specified				
CAS	= Chemical Abstracts Service Registry	NTP	= National Toxicology Program				
CEILING	= Ceiling Limit (15 minutes)	OSHA	= Occupational Safety and Health Administration				
CERCLA	= The Comprehensive Environmental Response, Compensation, and Liability Act	PEL	= Permissible Exposure Limit (OSHA)				
		PP	= Priority Pollutant				
EPA	= Environmental Protection Agency	SARA	= Superfund Amendments and Reauthorization Act				
HAP	= Hazard Air Pollutant	STEL	= Short Term Exposure Limit (15 minutes)				
HMIS	= Hazardous Materials Identification System	TLV	= Threshold Limit Value (ACGIH)				
HS	= Hazardous Substance	TP	= Toxic Pollutant				
IARC	= International Agency for Research on Cancer	TWA	= Time Weighted Average (8 hours)				
LEL	= Lower Explosive Limit	UEL	= Upper Explosive Limit				
NE	= Not Established	WHMIS	= Worker Hazardous Materials Information System (Canada)				
DISCLAIMER							
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