

Material Safety Data Sheet

ITEM NO: 1AA-CA09 CARB CLEANER

May 8, 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.: 0101C, 0105C, 0113C, 0117C, 0120C, 0152C, 2401C, 2405C, 2420C, 2421C.
www.berrymanproducts.com
EMERGENCY TELEPHONE NUMBER
INFOTRAC (800) 535-5053

SECTION - 2 COMPOSITION INFORMATION

COMPONENT	CAS #	% BY WEIGHT
Acetone	67-64-1	80 - 92%
Toluene	108-88-3	10 - 15%
2-Butoxyethanol	111-76-2	2 - 5%
Methanol	67-56-1	1 - 2%
Isopropanol	67-63-0	1 - 2%
Methyl Ethyl Ketone	78-93-3	1 - 2%
Xylene	1330-20-7	1 - 2%
Amyl Acetate	628-63-7	0.1 - 1%

SECTION - 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! Extremely Flammable Liquid and Vapor. Vapor May Cause Flash Fire. Harmful If Swallowed or 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 this material may cause stomach or intestinal upset with pain, nausea, and/or diarrhea.

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".

INGESTION —Harmful or Fatal If Swallowed. Can affect Target Organs. Blindness, liver, kidney and brain damage can occur.

Aspiration Hazard - Vomiting can cause serious inflammation and accumulation of fluids in the lungs. (Pneumonitis and pulmonary edema) 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
Ethylbenzene	100-41-4	Yes	(A3) Proven for animal	(2B) Possible for human	< 0.2%

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

CHEMICAL	CAS#	PERCENT
Toluene	108-88-3	10 - 15%
Methanol	67-56-1	1 - 2%
Xylene	1330-20-7	1 - 2%

HMIS		NFPA	
Health Hazard	2	Health	2
Fire Hazard	3	Flammability	3
Reactivity	0	Reactivity	0
Personal Protection	G	Specific hazard	

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.

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

FLASH POINT	n.o.s. (Acetone)	METHOD TAG Closed Cup	NFPA Class IB	FLAMMABILITY CLASSIFICATION Flammable Liquid
FLAMMABLE LIMITS	LOWER 2.6%	UPPER 12.8%		AUTO-IGNITION TEMPERATURE 465°C (869°F)

EXTINGUISHING MEDIA

Use DRY chemicals, CO₂, alcohol foam. Water spray to cool or protect exposed materials.

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.
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SPECIAL FIRE FIGHTING PROCEDURES

May explode if ignited in an enclosed area. Flashback along vapor trail may occur.

SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT

Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear. (Full Bunker Gear)

HAZARDOUS COMBUSTION PRODUCTS

Burning or thermal decomposition can produce carbon monoxide and/or carbon dioxide and other toxic fumes.

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. 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 allow material to contaminant water sources. Open container slowly to relive pressure. Bond and ground all equipment when transferring form one vessel to another. 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.

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-1B 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
Acetone	500 ppm A4		1000 ppm		750 ppm		
Toluene	50 ppm		200 ppm				
2-Butoxyethanol	25 ppm	121 mg/m3	25 ppm	120 mg/m3			SKIN
Methanol	200 ppm	260 mg/m3	250 ppm	310 mg/m3	250 ppm	310 mg/m3	SKIN
Isopropyl Alcohol	400 ppm	980 mg/m3	400 ppm	980 mg/m3	500 ppm		
Methyl Ethyl Ketone	200 ppm		200 ppm		300 ppm		
Xylene Isomers	100 ppm	434 mg/m3	100 ppm	435 mg/m3	150 ppm	651 mg/m3	
Amyl Acetate	50 ppm		100 ppm	525 mg/m3	100 ppm		

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

EYES	HANDS	BODY
Safety goggles or face shield	Butyl or neoprene gloves	Not normally required
RESPIRATORY	FEET	OTHER
Wear MSHA/NIOSH approved respirator or equivalent.	Not normally required	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	0.80
ODOR	Solvent	DENSITY	7.3 lb/gl
SOLUBILITY	< 85%	FREEZE POINT	Not determined
VOLATILES	100%	VAPOR PRESSURE	Not determined
V.O.C.	20%	VAPOR DENSITY	Not determined

SECTION – 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID –Heat sources, flame, sparks, static discharge, all electric devices and incompatible materials.

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 and other toxic fumes.

HAZARDOUS POLYMERIZATION –Will not occur.

SECTION – 11 TOXICOLOGICAL INFORMATION

TOXICITY 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
	LD50 ORAL	RAT	2.6 to 7.5 g/kg	
	LC50 INHALED	RAT	8000 ppm	4 HR
2-Butoxyethanol	LD50 SKIN	RABBIT	220 mg/kg	
	LD50 SKIN	GUINEA PIG	> 2000 mg/kg	
	LC50 INHALED	RAT	700 ppm	7 hr
Methanol	LD50 ORAL	RAT	5628 mg/kg	
	LD50 SKIN	RABBIT	15800 mg/kg	
	LC50 INHALED	RAT	64000 ppm	4 hr
Isopropyl Alcohol	LD50 ORAL	MOUSE	3800 gm/kg	
	LD50 ORAL	RABBIT	6410 mg/kg	
	LD50 ORAL	RAT	5045 mg/kg	
	LD50 SKIN	RABBIT	12800 mg/kg	
Methyl Ethyl Ketone	LD50 ORAL	RAT	2737 mg/kg	
	LC50 SKIN	RABBIT	23,500 mg/m3	8 HR
	LD50 ORAL	RABBIT	6480 mg/m3	
Xylene Isomers	LD50 ORAL	RAT	4300 mg/kg	
	LC50 INHALED	RAT	5000 ppm	4 HR
	LD50 ORAL	RAT	4300 mg/kg	
	LC50 INHALED	RAT	5000 ppm	4 HR
Amyl Acetate	LD50 ORAL	RAT	6,500 mg/kg	
	LD50 SKIN	RABBIT	8327 mg/kg	

SECTION – 12 ECOLOGICAL INFORMATION

ECOTOXICITY		RESULT	EXPOSURE
COMPONENT	SUBJECT	VALUE	TIME
Acetone	LC50 Mosquito Fish	13000 mg/l	48 HR
Toluene	LC50 Fish	10 to 100 mg/l	96 HR
2-Butoxyethanol	LC50 Daphnia magna	835 mg/l	
	EC50 Water flea	2500 mg/l	
	LC50 Flathead Minnow	1900 mg/l	
	LC50 Lepomis macrochirus	435 mg/l	
Methanol	LC50 Goldfish	250 ppm	11 HR
	LC50 Rainbow trout	8000 mg/L	48 HR
	LC50 Flathead Minnow	29.4 g/L	96 HR
Isopropyl Alcohol	LC50 Goldfish	5000 mg/l	24 HR
	LC50 Flathead Minnow	11830 mg/l	1 HR
Methyl Ethyl Ketone	LC50 Fish	> 100 gm/l	96 HR
Xylene	LC50 Oncorhynchus mykiss	8.2 mg/l	96 HR
	LC50 Lepomis macrochirus	12 mg/l	96 HR
	LC50 Pimephales promelas	13.3 mg/l	96 HR
Amyl Acetate	LC50 Fish	10 to 100 mg/l	96 HR

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 – 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.

SECTION – 14 TRANSPORT INFORMATION**D.O.T. CLASSIFICATION**

UN NUMBER	UN1993
PROPER SHIPPING NAME	FLAMMABLE LIQUIDS, n.o.s.
N.O.S.	(Acetone, Toluene, Methanol)
HAZARD CLASS	3
PACKING GROUP	PGII
LABEL CODES	3 FLAMMABLE LIQUID
REPORTABLE QUANTITY	1000 LBS
EMERGENCY RESPONSE NUMBER	127 (Acetone) 130 (Toluene)
MARINE POLLUTANT	NO

SECTION – 15 REGULATORY INFORMATION

TSCA Chemical Name	CAS No.	Sec 8(b) Inventory	Sec 8(d) Health & Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification									
Acetone	67-64-1	Y		Y	Y									
Toluene	108-88-3	Y	Y											
2-Butoxyethanol	111-76-2	Y												
Methanol	67-56-1	Y	Y		Y									
Isopropyl Alcohol	67-63-0	Y	Y	Y	Y									
Methyl Ethyl Ketone	78-93-3	Y												
Xylene, all isomers	1330-20-7	Y	Y	Y										
Amyl Acetate	628-63-7	Y												
Reportable Quantities Chemical Name	CAS No.	EPCRA TPQ Sec. 302	EPCRA RQ Sec. 304	CERCLA RQ Sec. 103	TRI Sec. 313	RCRA Code	RMP TQ Sec. 112r							
Acetone	67-64-1			5,000		U002								
Toluene	108-88-3			1,000	Y	U220								
Methanol	67-56-1			5,000	Y	U154								
Isopropyl Alcohol	67-63-0				Y									
Methyl Ethyl Ketone	78-93-3			5,000	Y	U159								
Xylene	1330-20-7			100	Y	U239								
Amyl Acetate	628-63-7			5,000										
SARA Chemical Name	CAS No.	Sec 313	Acute	Sec 311 & Chronic	312 Hazards Flammable	Pressure	Reactive							
Acetone	67-64-1	Y	Y	N	Y	N	N							
Toluene	108-88-3	Y	Y	Y	Y	N	N							
2-Butoxyethanol	111-76-2	Y	Y	Y	Y	N	N							
Methanol	67-56-1	Y	Y	Y	Y	N	N							
Isopropyl Alcohol	67-63-0	Y	Y	Y	Y	N	N							
Methyl Ethyl Ketone	78-93-3	Y	Y	N	Y	N	N							
Amyl Acetate	628-63-7	Y	Y	N	N	N	N							
Right To Know Chemical Name	CAS No.	STATE												
		CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Acetone	67-64-1						Y		Y					
Toluene	108-88-3	Y		Y			Y		Y		Y	Y		Y
Isopropyl Alcohol	67-63-0	Y		Y			Y		Y		Y	Y		Y
Methanol	67-56-1	Y												
Methyl Ethyl Ketone	78-93-3	Y		Y			Y		Y		Y	Y		
Xylene	1330-20-7	Y		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
Amyl Acetate	628-63-7	Y							Y					
CALIFORNIA Proposition 65	WARNING! This product contains chemicals known to the state of California to cause:													
	CAS No.	Birth Defects			Reproductive Harm			Carcinogen			Developmental			
Ethylbenzene	100-41-4	Y			Y			Y			Y			
Toluene	108-88-3	Y			Y						Y			
Methanol	67-56-1	Y			Y									
Clean Air & Water Acts Chemical Name	CAS No.	CAA HAP	Ozone Class 1	Ozone Class 2	CWA HS	PP	TP							
Ethylbenzene	100-41-4	Y			Y	Y	Y							
Acetone	67-64-1	Y												
Toluene	108-88-3				Y									
Methyl Ethyl Ketone	78-93-3	Y												
Xylene (mixed isomers)	1330-20-7	Y			Y									
Methanol	67-56-1				Y									

SECTION – 15 REGULATORY INFORMATION CONTINUED

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries

Chemical Name	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Ethylbenzene	Yes	Yes	Yes	Yes	Yes	Yes
Isopropyl Alcohol	Yes	Yes	Yes	Yes	Yes	Yes
Methyl Ethyl Ketone	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification (CANADA)

Chemical Name	DSL	CLASS	DEFINITION
Acetone	Yes	B2	Flammable liquid with a flash point lower than 37.8°C (100°F)
Toluene	Yes	B2	
Methyl Ethyl Ketone	Yes	B2	Materials Causing Other Toxic Effects - Toxic Material
Xylene (mixed isomers)	Yes	B2	
Methanol	Yes	D2B	
Ethylbenzene	Yes	D2B	

DSCL (EEC)	CODE	DEFINITION
	R11	Highly Flammable
	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.

SECTION – 16 OTHER INFORMATION

Source Information	Chemical	Cas No.	Revision Date
SUNOCO	Acetone	67-64-1	4/13/2005
CITGO Petroleum Corporation	Toluene	108-88-3	6/18/2007
Conchemco, LTD	Methyl Ethyl Ketone	78-93-3	11/12/2006
Conchemco LTD	2-Propanol	67-63-0	11/12/2006
CITGO	Xylene (mixed isomers)	1330-20-7	6/19/2007
EQUISTAR	Methanol	67-56-1	10/16/2001
Dow Chemical	Primary Amyl Acetate	628-63-7	7/16/2008

Disclaimer

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