Material Safety Data Sheet

Aerosol

Carburetor Choke & Throttle Body Cleaner | August 25, 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.: 0113, 0152
www.berrymanproducts.com
EMERGENCY TELEPHONE NUMBER
INFOTRAC (800) 535-5053

SECTION - 2 COMPOSITION INFORMATION

COMPONENT	CAS #	% BY WEIGHT
Acetone	67-64-1	40- 60%
Toluene	108-88-3	30 - 50%
2-Butoxyethanol	111-76-2	1 - 2%
Methanol	67-56-1	1 - 5%
Isopropanol	67-63-0	1 - 2%
Methyl Ethyl Ketone	78-93-3	1 - 2%
Xylene	1330-20-7	1 - 2%
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. 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	< 0.3%

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

CHEMICAL	CAS#	PERCENT
Toluene	108-88-3	30 - 50%
Methanol	67-56-1	1 - 5%
Xylene	1330-20-7	1 - 2%

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.
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	FLASH POINT	METHOD	NFPA Class	FLAMMABILITY CLASSIFICATION
(Acetone)	-16ºC (3ºF)	TAG Closed Cup	Class IB	Flammable Liquid
FLAMMABLE LIMITS	LOWER	UPPER	AUTO-IGNITION TEMPERATURE	
	2.6%	12.8%	225ºC (437ºF)	
EXPLOSION HAZARDS	Mechanical Impact		Static Discharge	
	Not Expected		Expected	

Reactive with	Acids and oxidizers such as chlorine and other halogens, chromates, perchlorates, peroxides ,oxygen, hydrides, moist cesium monoxide, or lithium acetylene carbide diammino.
Extinguishing Media	Use DRY chemicals, CO2, 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! 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 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				
2-Butoxyethanol	25 ppm	121 mg/m^3	25 ppm	120 mg/m^3			Skin
Methanol	200 ppm	260 mg/m^3	250 ppm	310 mg/m^3	250 ppm	310 mg/m^3	Skin
Isopropyl Alcohol	400 ppm	980 mg/m^3	400 ppm	980 mg/m^3	500 ppm		
Methyl Ethyl Ketone	200 ppm		200 ppm		300 ppm		
Xylene Isomers	100 ppm	434 mg/m^3	100 ppm	435 mg/m^3	150 ppm	651 mg/m^3	
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	Not normally required.	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	0.82
ODOR	Solvent	DENSITY	6.86 lb/gal
SOLUBILITY	< 65%	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 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
	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/m^3	8 Hr
	LD50	Oral	Rabbit	6480 mg/m^3	
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
Carbon Dioxide	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
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

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, weather 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
UN1950	AEROSOLS, FLAMMABLE	(Acetone, Toluene, Methanol)	2.1

PACKING GROUP	LABEL CODES	REPORTABLE QUANTITY	RESPONSE CODE	MARINE POLLUTANT
	2.1 Flammable	1000 LBS	127 (Acetone) 130 (Toluene)	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	Yes		Yes	Yes
Toluene	108-88-3	Yes	Yes		
2-Butoxyethanol	111-76-2	Yes			
Methanol	67-56-1	Yes	Yes		Yes
Isopropyl Alcohol	67-63-0	Yes	Yes	Yes	Yes
Methyl Ethyl Ketone	78-93-3	Yes			
Xylene, all isomers	1330-20-7	Yes	Yes	Yes	
Carbon Dioxide	124-38-9	Yes			

HCS CLASSIFICATION

Flammable Liquid having a flash point lower than 23ºC (73ºF) (Acetone, Toluene, Methanol)

REPORTABLE QUANTITIES

Chemical Name	CAS No.	Extremely Hazardous EPCRA TPQ Sec. 302	EPCRA RQ Sec. 304	Reportable Quantity CERCLA RQ Sec. 103	Emission Reporting 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	
Isopropyl Alcohol	67-63-0				Yes		
Methyl Ethyl Ketone	78-93-3			5,000	Yes	U159	
Xylene	1330-20-7			100	Yes	U239	

SECTION - 15 REGULATORY INFORMATION CONTINUED

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		
2-Butoxyethanol	111-76-2	Yes	Yes	Yes	Yes		
Methanol	67-56-1	Yes	Yes	Yes	Yes		
Isopropyl Alcohol	67-63-0	Yes	Yes	Yes	Yes		
Methyl Ethyl Ketone	78-93-3	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
Acetone	67-64-1						Yes		Yes					
Toluene	108-88-3	Yes		Yes			Yes		Yes		Yes	Yes		Yes
Isopropyl Alcohol	67-63-0	Yes		Yes			Yes		Yes		Yes	Yes		Yes
Methanol	67-56-1	Yes												
Methyl Ethyl Ketone	78-93-3	Yes		Yes			Yes		Yes		Yes	Yes		
Xylene	1330-20-7	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
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes		Yes
Methanol	67-56-1	Yes	Yes		

Clean Air & Water Acts		Clean Air Acts			Clean Water Acts		
Chemical Name	CAS No.	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Ethylbenzene	100-41-4	Yes			Yes	Yes	Yes
Toluene	108-88-3				Yes		
Methyl Ethyl Ketone	78-93-3	Yes					
Xylene (mixed isomers)	1330-20-7	Yes			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
Ethylbenzene	100-41-4	Yes	Yes	Yes	Yes	Yes	Yes
Isopropyl Alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes	Yes
Methyl Ethyl Ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	67-56-1	Yes	Yes	Yes	Yes	Yes	Yes

DSCL (EEC)	Code	Definition (Risk-Phrases / Safety-Phrases)
	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.
	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
Acetone	Yes	B2	Flammable liquid with a flash point lower than 37.8ºC (100ºF)
Toluene	Yes	B2	
Methyl Ethyl Ketone	Yes	B2	
Xylene (mixed isomers)	Yes	B2	
Methanol	Yes	D2B	Materials Causing Other Toxic Effects - Toxic Material
Ethylbenzene	Yes	D2B	
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
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
AIRGAS	Carbon Dioxide	124-38-9	4/11/2005

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
			PEL	=	Permissible Exposure Limit (OSHA)
EPA	=	Environmental Protection Agency	PP	=	Priority Pollutant
HAP	=	Hazard Air Pollutant	SARA	=	Superfund Amendments and Reauthorization Act
HMIS	=	Hazardous Materials Identification System	STEL	=	Short Term Exposure Limit (15 minutes)
HS	=	Hazardous Substance	TLV	=	Threshold Limit Value (ACGIH)
IARC	=	International Agency for Research on Cancer	TP	=	Toxic Pollutant
LEL	=	Lower Explosive Limit	TWA	=	Time Weighted Average (8 hours)
NE	=	Not Established	UEL	=	Upper Explosive Limit
			WHMIS	=	Worker Hazardous Materials Information System (Canada)