1. Product and company identification

Product name	:	Barsol A-3506
Supplier	:	Barton Solvents, Inc. 1920 NE Broadway PO Box 221 Des Moines, IA 50306-0221 (515) 265-7998
Code	:	60056190
Date of revision	:	2/12/96; 12/17/97; 8/24/00; 2/5/07; 2/8/08; 9/20/11
In case of emergency	:	CHEMTREC (800) 424-9300
Product type	:	Liquid.

2. Hazards identification

Emergency overview

Physical state	:	Liquid.
Color	:	Clear Colorless.
Odor	:	Aromatic.
Hazard statements	:	CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Precautionary measures	:	Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry	:	Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation	:	Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath.
Ingestion	:	Harmful if swallowed.
Skin	:	This product may irritate skin upon contact.
Eyes	:	This product may irritate eyes upon contact.

Potential chronic health effects

Chronic effects	:	Contains material that can cause target organ damage.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Target organs	:	Contains material which causes damage to the following organs: kidneys, the reproductive system. Contains material which may cause damage to the following organs: blood, lungs, liver, mucous membranes, cardiovascular system, upper respiratory tract, skin, eyes, central nervous system (CNS), ears.

Over-exposure signs/symptoms

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	No specific data.
Eyes	:	No specific data.
Medical conditions aggravated by over-exposure	:	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

6. Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits
Toluene	**ACGIH TLV (United States, 2007).** TWA: 20 ppm
Dimethylketone	**ACGIH TLV (United States).** STEL: 750 ppm
Methanol	**ACGIH TLV (United States).** TWA: 200 ppm STEL: 250 ppm **OSHA PEL (United States).** TWA: 200 ppm
Light Aliphatic Solvent Naphtha (V)	**ACGIH TLV (United States).** TWA: 300 ppm **OSHA PEL (United States).** TWA: 300 ppm
2-Butanone	**OSHA PEL (United States).** TWA: 200 ppm **ACGIH TLV (United States).** TWA: 200 ppm STEL: 300 ppm

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Gas.	Rat	>5000 ppm	1 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Dimethylketone	LC50 Inhalation Gas.	Mouse	46420 ppm	1 hours
	LC50 Inhalation Gas.	Rat	21142 ppm	8 hours
	LD50 Dermal	Rabbit	20000 mg/kg	-
	LD50 Oral	Dog	8000 mg/kg	-
	LD50 Oral	Mouse	3000 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
Methanol	LC50 Inhalation Gas.	Cat	65700 ppm	4.5 hours
	LC50 Inhalation Gas.	Cat	33600 ppm	6 hours
	LD50 Dermal	Monkey	390 mg/kg	-
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Monkey	7000 mg/kg	-
	LD50 Oral	Rabbit	14400 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LDLo Oral	Mouse	420 mg/kg	-
Light Aliphatic Solvent Naphtha (V)	LC50 Inhalation Vapor	Rat	>5000 ppm	1 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-Butanone	LC50 Inhalation Gas.	Rat	>5000 ppm	1 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. (Toluene) May be fatal or cause blindness if swallowed.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Toluene	A5	4	-	-	-	-
Dimethylketone	A5	-	-	-	-	-
Methanol	A5	4	-	-	-	-
Light Aliphatic Solvent Naphtha (V)	A5	4	-	-	-	-
2-Butanone	A5	4	-	-	-	-

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

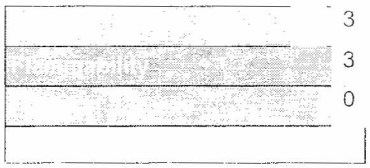
15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	No.

16. Other information

Label requirements : CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.) :



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The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Other special considerations : 02-12-96 Format Change; 12-17-97 TLV Change; Ethyl Benzene Classified 2B Carcinogen, NFPA Update 08-24-2000; Format and first aid update 2/5/07; TLV Update 2/8/08; MSDS Update 9/20/11

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☑ Indicates information that has changed from previously issued version.

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