## ETHYL BUTYL KETONE

Common Synonyms Liquid Butyl ethyl ketone		Liquid	Colorless	Mild, fruity odor	4.1 Flash Point: 4.2 Flammable L UEL: 8.8%
Avoid inha Wear gogg overclothir Shut off ig Notify loca	lation. gles, self-contai g (including glo nition sources a l health and pol		oparatus, and rubber		4.3 Fire Extingu chemical, a dioxide. 4.4 Fire Extingu Used: Watt 4.5 Special Hazz Products: gases, suct
Fire	ter intakes. Combustible. Vapors can flow to distant ignition source and flash back. Wear full protective clothing with self-contained breathing apparatus.				carbon mon involved in 4.6 Behavior in 4.7 Auto Ignition available
			ical, alcohol foam, or carbon osed containers.	dioxide.	4.8 Electrical Ha plastics, rub (insulators).
Exposure	CALL FOR MEDICAL AID. VAPOR Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.			4.9 Burning Rat 4.10 Adiabatic F not availabl 4.11 Stoichomet (calc.)	
	LIQUID Remove contaminated clothing and shoes. Wash affected areas with soap and water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink 1-2 glasses of water and induce vomiting.				4.12 Flame Temp available 4.13 Combustion Product): 1 4.14 Minimum O Combustio
Water	May be dang	gerous if it enter			5. CHEM
Pollution		nealth and wildlif tors of nearby w			5.1 Reactivity w 5.2 Reactivity w Contact with
					and explosi
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Contain Collection Systems: Skim			2. CHEMICAL 2.1 CG Compatibili 2.2 Formula: Cate( 2.3 IMO/UN Design available 2.4 DOT ID No.: No	toC₄H∍ ation: Currently not	5.4 Neutralizing Caustics: 1 5.5 Polymerizati 5.6 Inhibitor of I pertinent.
			2.5 CAS Registry N 2.6 NAERG Guide		6. WAT
protective proof safer respirator. 3.2 Symptoms Fol lungs. Higt 3.3 Treatment of 1 stopped, g at least 15 with soap. 3.4 TLV-TWA: 50 3.5 TLV-STEL: No 3.6 TLV-Sciling: N 3.7 Toxicity by Ing 3.8 Toxicity by Ing 3.9 Chronic Toxic	clothing to prev y goggles wheir r self-containe <b>lowing Expos</b> concentrations <b>Exposure:</b> Get ve artificial res min., lifting lids and water. INGI ypm : listed. ot listed. estion: Currer <b>alation:</b> Currer <b>ty:</b> Chemical is	ent: Impervious rent repeated or re liquid may cor ed breathing app ure: Short term medical attentic piration. If brea occasionally. S ESTION: Give 1 thy not available a defatting age	H HAZARDS clothing, gloves, face shield, prolonged skin contact with li tact eyes. Use respiratory p artus) where vapors may be exposure can cause irritation adache, dizziness or unconsco in. INHALATION: Remove to thing is difficult, give oxygen. KIN: Remove contaminated to 2 glasses of water and in nt and can cause dermatitis of atory, liver, or skin ailments.	quid material. Use splash rotection (approved encountered. of eyes, nose, throat and iousness. fresh air. If breathing has EYES: Flush with water for lothing and shoes. Wash duce vomiting.	6.2 Waterfowl T available 6.3 Biological O Currently nc 6.4 Food Chain Currently nc 6.5 GESAMP Ha Bioaccumul Damage to Human Ora Human Con Reduction o
3.10 Vapor (Gas) In high conce 3.11 Liquid or Soli	ritant Charact ntrations unple d Characterist rting and redde Id: Currently n 000 ppm VA: 50 ppm 'EL: Not listed. iling: Not listed	eristics: Vapors asant. The effectives: Minimum ha ening of the skin. ot available	cause moderate irritation su ct is temporary. Izard. If spilled on clothing an	-	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
Flash Point: 115°F O.C.	7.1 Grades of Purity: CP; technical grades.
Presentation Prese	7.2 Storage Temperature: Ambient.
Fire Extinguishing Agents: Dry	7.3 Inert Atmosphere: No requirement.
chemical, alcohol foam, or carbon	7.4 Venting: Not listed.
dioxide.	7.5 IMO Pollution Category: Currently not available
Fire Extinguishing Agents Not to Be Used: Water.	7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available
Special Hazards of Combustion	7.7 Barge nun Type. Currently not available
Products: Irritating vapors and toxic gases, such as carbon dioxide and	8. HAZARD CLASSIFICATIONS
carbon monoxide, may be formed when	8.1 49 CFR Category: Not listed.
involved in fire.	8.2 49 CFR Class: Not pertinent.
Behavior in Fire: Currently not available Auto Ignition Temperature: Currently not	8.3 49 CFR Package Group: Not listed.
available	8.4 Marine Pollutant: No
Electrical Hazards: Will attack some	8.5 NFPA Hazard Classification:
plastics, rubber, and coatings (insulators).	Category Classification Health Hazard (Blue) 1
Burning Rate: Currently not available	Flammability (Red)
0 Adiabatic Flame Temperature: Currently	Instability (Yellow)
not available	8.6 EPA Reportable Quantity: Not listed.
1 Stoichometric Air to Fuel Ratio: 47.6 (calc.)	8.7 EPA Pollution Category: Not listed.
2 Flame Temperature: Currently not	8.8 RCRA Waste Number: Not listed
available	8.9 EPA FWPCA List: Not listed
3 Combustion Molar Ratio (Reactant to Product): 14.0 (calc.)	
4 Minimum Oxygen Concentration for	9. PHYSICAL & CHEMICAL
Combustion (MOCC): Not listed	PROPERTIES
5. CHEMICAL REACTIVITY	9.1 Physical State at 15° C and 1 atm: Liquid
	9.2 Molecular Weight: 114.19
Reactivity with Water: No reaction.	9.3 Boiling Point at 1 atm: 297°F = 147°C = 420°K
Reactivity with Common Materials: Contact with oxidizers can cause fires	<b>9.4 Freezing Point:</b> -38°F = -39°C = 234°K
and explosions.	9.5 Critical Temperature: Currently not available
Stability During Transport: Stable.	9.6 Critical Pressure: Currently not available
Neutralizing Agents for Acids and Caustics: Not pertinent.	9.7 Specific Gravity: 0.818
<b>Polymerization:</b> Will not polymerize.	9.8 Liquid Surface Tension: Currently not
Inhibitor of Polymerization: Not	available 9.9 Liquid Water Interfacial Tension: Currently
pertinent.	not available
6. WATER POLLUTION	9.10 Vapor (Gas) Specific Gravity: 3.93 9.11 Ratio of Specific Heats of Vapor (Gas):
Aquatic Toxicity: Currently not available	Currently not available
Waterfowl Toxicity: Currently not available	9.12 Latent Heat of Vaporization: Currently not available
Biological Oxygen Demand (BOD):	9.13 Heat of Combustion: Currently not available
Currently not available	9.14 Heat of Decomposition: Currently not available
Food Chain Concentration Potential: Currently not available	9.15 Heat of Solution: Currently not available
GESAMP Hazard Profile:	9.16 Heat of Polymerization: Not pertinent.
Bioaccumulation: T	9.17 Heat of Fusion: Currently not available
Damage to living resources: 2 Human Oral hazard: 1	9.18 Limiting Value: Currently not available
Human Contact hazard: I Reduction of amenities: X	9.19 Reid Vapor Pressure: Currently not available
NOTE	3

## ETHYL BUTYL KETONE

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	C UR R E N T L Y N O T A V A I L A B L E		C UR REENTLY NOT AVAILABLE		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
68	0.430	68	0.077	68	0.00156		CURRENTLY NOT AVAILABLE