Material Safety Data Sheet May be used to comply with OSHA's		U.S. Departme	ent of Labor			
Hazard Communication Standard 29		Occupational S	Safety and Health			
CFR 1910.1200. Standard must be		Administration (Non-Mandatory Form)				
consulted for specific requirements.		Form Approved OMB No. 1218-0072				
Identity (As Used on Label and List) LIGHTERS, containing flammable gas (UN# 1057)		Note: Blank Spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.				
SECTION I						
Supplier's Name		Emergency To	elephone Number			
Magna Industires, Inc.		1-800-424-		3. V		
Address Number, Street, City and Zip Code		Telephone Number for Information				
		1-323-261-7293				
		Date Prepared				
2233 West 110th Street		September 24, 2001				
Cleveland, Ohio 44102		Signature of I	Preparer (Optional)			
SECTION II - Hazardous Ingredients/	Identity Information	I PRIVATE TO THE PRIVATE OF THE PRIV				
Hazardous Components				Other Limits		
Specific Chemical Identity, Comm	non Name(s)	OSHA PEL	ACGIH TLV	Recommended	% (Optional)	
Butane (n-Butane) CAS #106-97-8	3	NA	800 PPM	NIOSH - 800 PPM	80	
Propane (n-Propane, Propyl Hydri	de) CAS #74-98-6	1,000 PPM	1,000 PPM	NIOSH - 1,000 PP	M 20	
NFPA Hazard Ratings		HMIS Ratings				
115 00 4			.u. 0			
Health - 1		Health - 0				
Flammability - 4		Flammability - 4 Reactivity - 0				
Reactivity - 0		Rea	activity - 0			
SECTION III - Physical/Chemical Cha	racteristics					
Boiling Point	10.9°F	Specific Gravity (H ₂ O = 1)		0.5	0.56	
Vapor Pressure (mm Hg)	1823	Melting Point		N/	NA	
Vapor Density (Air = 1)	2	Evaporation Rate (Butyl Acetate = 1)) >	1	
Solubility in Water	@ 77°C, 17cc per 10	00 cc of Water				
Appearance and Odor	Clear, Odorless					
SECTION IV - Fire and Explosion Ha	zard Data					
Flash Point (Method Used)	-120°F (O.C.)	Flammable L	imits NA	LEL 1.8	UEL 8.4	
Extinguishing Media Carbon dioxide	, dry chemical, fog or	water spray.				
Special Fire Fighting Procedures	Confine fire to immed	diate area. Disp	erse liquid or vapor if le			
Unusual Fire and Explosion Hazards	Will form explosive	mixtures in air.	Vapors from liquified g	as initially heavier		
than air and spread along ground.	Vapors may travel to i	gnition source a	nd flash back.			
SECTION V - Reactivity Data						
Stability	Unstable			Conditions to Av		
	Stable		X	Heat, Sparks, Ope	en Flames.	
Incompatibility (Materials to Avoid)	Strong acids, alkalis					
Hazardous Decomposition or Bypro		ay produce carb	on monoxide.	10	-14	
Hazardous Polymerization	May Occur Will Not Occur	X			Conditions to Avoid NA	
SECTION VI - Health Hazard Data	Will Not Occur		^		^	
Route(s) of Entry	Inhalation?	Skin?		Ingestion?		
Health Hazards (Acute and Chronic) Extreme flammability; vapor clouds	Yes easily ignited; simple	asphyxiation; fro	Yes estbite to skin and eyes	from contact with	5	
liquid gases.		1400 **		OCUA De 1-7	2	
Carcinogenicity	NTP? No	IARC Monog	raphs? No	OSHA Regulated N		
Signs and Symptoms of Exposure Drowsiness or dizziness possible a	t low concentrations of	the gases.				

Medical Conditions Generally Aggravated by Exposure