

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)
00257

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

Manufacturer's name ENOR INTERNATIONAL INC.	Emergency Telephone Number (800)424-9300
Address (Number, Street, City, State and ZIP Code) 148 S. 8TH AVE. UNIT C LA PUENTE, CA 91746	Telephone Number for Information (626)336-2919
	Date Prepared 1/5/09
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Butane (Liquified gas)		800 PPM		
Class 2.1				
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UN #1057				

Section III—Physical/Chemical Characteristics

Boiling Point	-0.4 F	Specific Gravity (H ₂ O = 1)	.55 (Liquid)
Vapor Pressure (mm Hg)	2700	Melting Point	N/A
Vapor Density (AIR = 1)	1.9	Evaporation Rate (Butyl Acetate = 1)	1
Solubility in Water	N/A		
Appearance and Odor	Colorless with faint sweet odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	120°F (Estimated)	Flammable Limits	N/A	LEL	1.8	UEL	8.4
Extinguishing Media	Carbon dioxide; dry chemical						
Special Fire Fighting Procedures	Protection from the possibility of lighters that may explode if subjected to high temperatures or open flames.						
Unusual Fire and Explosion Hazards	The lighters may explode if subjected to high temperatures or open flames.						

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid high temperatures or open flames.
Incompatibility (Materials to Avoid) N/A			
Hazardous Decomposition or Byproducts N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic) The gas causes drowsiness and is an asphyxiant when one is exposed to large quantities, however the lighters are not a health hazard.			
Carcinogenicity	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure Not considered carcinogenic. Drowsiness to the gas.			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency and First Aid Procedures Fresh air.			

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled		N/A
Waste Disposal Method Lighters should not be punctured or incinerated. Empty lighters may be disposed of.		
Precautions to Be Taken in Handling and Storing Avoid excessive heat, do not puncture.		
Other Precautions		

Section VII—Control Measures

Respiratory Protection (Specify Type) None required.			
Ventilation	Local Exhaust	As required.	Special None
	Mechanical (General)	None.	Other
Protective Gloves		None.	Eye Protection None.
Other Protective Clothing or Equipment			
Work/Hygienic Practices None.			

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IDENTITY (as Used on Label and List)

11001

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Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Butane (Liquified gas)		800 PPM		

Class 2.1

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Section III—Physical/Chemical Characteristics

Boiling Point	-0.4 F	Specific Gravity (H ₂ O = 1)	.55 (Liquid)
Vapor Pressure (mm Hg)	2700	Melting Point	N/A
Vapor Density (AIR = 1)	1.9	Evaporation Rate (Butyl Acetate = 1)	1
Solubility in Water	N/A		
Appearance and Odor	Colorless with faint sweet odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	120°F (Estimated)	Flammable Limits	N/A	LEL	1.8	UEL	8.4
Extinguishing Media	Carbon dioxide; dry chemical						
Special Fire Fighting Procedures	Protection from the possibility of lighters that may explode if subjected to high temperatures or open flames.						
Unusual Fire and Explosion Hazards	The lighters may explode if subjected to high temperatures or open flames.						

(Reproduce locally)

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid high temperatures or open flames.
Incompatibility (Materials to Avoid) N/A			

Hazardous Decomposition or Byproducts N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI—Health Hazard Data

Route(s) of Entry Inhalation? Yes Skin? N/A Ingestion? N/A

Health Hazards (Acute and Chronic) The gas causes drowsiness and is an asphyxiant when one is exposed to large quantities, however the lighters are not a health hazard.

Carcinogenicity NTP? N/A IARC Monographs? N/A OSHA Regulated? N/A

Signs and Symptoms of Exposure Not considered carcinogenic. Drowsiness to the gas.

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures Fresh air.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled N/A

Waste Disposal Method Lighters should not be punctured or incinerated. Empty lighters may be disposed of.

Precautions to Be Taken in Handling and Storing Avoid excessive heat, do not puncture.

Other Precautions

Section VII—Control Measures

Respiratory Protection (Specify Type) None required.

Ventilation	Local Exhaust	As required.	Special	None
	Mechanical (General)	None.	Other	

Protective Gloves None. Eye Protection None.

Other Protective Clothing or Equipment

Work/Hygienic Practices None.

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Appearance and Odor	Colorless with faint sweet odor		

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Flash Point (Method Used)	120°F (Estimated)	Flammable Limits	N/A	LEL	1.8	UEL	8.4
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Special Fire Fighting Procedures	Protection from the possibility of lighters that may explode if subjected to high temperatures or open flames.						
Unusual Fire and Explosion Hazards	The lighters may explode if subjected to high temperatures or open flames.						

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid high temperatures or open flames.
Incompatibility (Materials to Avoid) N/A			
Hazardous Decomposition or Byproducts N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic) The gas causes drowsiness and is an asphyxiant when one is exposed to large quantities, however the lighters are not a health hazard.			
Carcinogenicity	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure Not considered carcinogenic. Drowsiness to the gas.			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency and First Aid Procedures Fresh air.			

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled		N/A
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Precautions to Be Taken in Handling and Storing Avoid excessive heat, do not puncture.		
Other Precautions		

Section VII—Control Measures

Respiratory Protection (Specify Type) None required.		
Ventilation	Local Exhaust	As required.
	Mechanical (General)	None.
Protective Gloves	None.	Eye Protection
Other Protective Clothing or Equipment		None.
Work/Hygienic Practices None.		

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(Reproduce locally)

OSHA 174 Sept

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid high temperatures or open flames.
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? N/A	Ingestion? N/A
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Signs and Symptoms of Exposure Not considered carcinogenic. Drowsiness to the gas.			
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Emergency and First Aid Procedures Fresh air.			

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Steps to Be Taken in Case Material Is Released or Spilled		N/A
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Other Protective Clothing or Equipment			
Work/Hygienic Practices None.			