



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: GASOLINE 87N

Manufacturer Information:

Sunoco, Inc. (R&M)
 Ten Penn Center
 1801 Market Street
 Philadelphia, Pennsylvania, 19103-1699

Product Use:

Motor Fuel

Emergency Phone Numbers:

Chemtrec (800) 424-9300
 Sunoco Inc. (800) 964-8861

Information:

Product Safety Information (610) 859-1120

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
LIGHT PETROLEUM DISTILLATE	8006-61-9	0 - 91.9
TOLUENE	108-88-3	0 - 30
XYLENE	1330-20-7	0 - 25
MTBE	1634-04-4	8 - 15
TERT-BUTYL ALCOHOL	75-65-0	0 - 10
CYCLOHEXANE	110-82-7	0 - 9
1,2,4-TRIMETHYLBENZENE	95-63-6	0 - 5
ETHYL BENZENE	100-41-4	0 - 5
N-HEXANE	110-54-3	0 - 5
NAPHTHALENE	91-20-3	0 - 5
BENZENE	71-43-2	0.1 - 4.9
TERT-AMYL METHYL ETHER	994-05-8	0 - 2
CUMENE	98-82-8	0 - 1

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

	CAS No.	Governing Body	Exposure Limits		
BENZENE	71-43-2	ACGIH	STEL	2.5	ppm
BENZENE	71-43-2	OSHA	STEL	5	ppm
BENZENE	71-43-2	ACGIH	TWA	0.5	ppm
BENZENE	71-43-2	OSHA	TWA	1	ppm
CUMENE	98-82-8	ACGIH	TWA	50	ppm
CUMENE	98-82-8	OSHA	TWA	50	ppm
CYCLOHEXANE	110-82-7	ACGIH	TWA	100	ppm

CYCLOHEXANE	110-82-7	OSHA	TWA	300	ppm
ETHYL BENZENE	100-41-4	ACGIH	STEL	125	ppm
ETHYL BENZENE	100-41-4	ACGIH	TWA	100	ppm
ETHYL BENZENE	100-41-4	OSHA	TWA	100	ppm
MTBE	1634-04-4	ACGIH	TWA	40	ppm
N-HEXANE	110-54-3	ACGIH	TWA	50	ppm
N-HEXANE	110-54-3	OSHA	TWA	500	ppm
NAPHTHALENE	91-20-3	ACGIH	STEL	15	ppm
NAPHTHALENE	91-20-3	ACGIH	TWA	10	ppm
NAPHTHALENE	91-20-3	OSHA	TWA	10	ppm
TERT-AMYL METHYL ETHER	994-05-8	ACGIH	TWA	20	ppm
TOLUENE	108-88-3	OSHA	C	300	ppm
TOLUENE	108-88-3	NIOSH	STEL	150	ppm
TOLUENE	108-88-3	ACGIH	TWA	50	ppm
TOLUENE	108-88-3	OSHA	TWA	200	ppm
XYLENE	1330-20-7	ACGIH	STEL	150	ppm
XYLENE	1330-20-7	ACGIH	TWA	100	ppm
XYLENE	1330-20-7	OSHA	TWA	100	ppm
LIGHT PETROLEUM DISTILLATE	8006-61-9	ACGIH	STEL	500	ppm
LIGHT PETROLEUM DISTILLATE	8006-61-9	ACGIH	TWA	300	ppm
TERT-BUTYL ALCOHOL	75-65-0	ACGIH	TWA	100	ppm
TERT-BUTYL ALCOHOL	75-65-0	OSHA	TWA	100	ppm

3. HAZARDS IDENTIFICATION

• EMERGENCY OVERVIEW

Danger! Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. Harmful if inhaled. May produce nervous system effects, including drowsiness, dizziness, coma and even death. May cause skin irritation. May cause eye irritation. Contains material or materials that can cause cancer.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPI</u>
NFPA	1	3	0	
HMIS	2	4	0	X

• POTENTIAL HEALTH EFFECTS

§ PRE-EXISTING MEDICAL CONDITIONS

The following diseases or disorders may be aggravated by exposure to this product: Skin; Eye; Blood forming organs; Nervous system, Respiratory system; Lung (asthma-like conditions); Cardiovascular system,

§ INHALATION

High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death). May cause headaches and dizziness. May cause serious disturbances of heart rhythm. Excessive exposure to mists or vapors generated by heat may cause irritation to eyes, nose, throat, lungs and respiratory tract. Solvent "huffing/sniffing" (abuse) or intentional prolonged overexposure to high levels of vapors can produce abnormal behavior, convulsions, hallucinations, delirium, nervous system damage, serious disturbances of heart rhythm and sudden death. Repeated excessive exposures may cause blood disorders such as anemia and leukemia. Contains a material that has been related to cancer in humans.

LC50 (mg/l):	no data
LC50 (mg/m3):	no data
LC50 (ppm):	no data

§ **SKIN**

Moderately irritating to the skin. May be absorbed through the skin in harmful amounts. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Draize Skin Score: 4.8 Out of 8.0

LD50 (mg/kg): no data

§ **EYES**

Moderately irritating to the eyes.

§ **INGESTION**

Product may be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. Irritating to mouth, throat, and stomach.

LD50 (g/kg): no data

4. FIRST AID MEASURES

• **INHALATION**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

• **SKIN**

Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse. Injection injuries may not appear serious at first but within a few hours, without proper treatment, the area will become swollen, discolored and extremely painful.

• **EYES**

Flush eye with water for 15 minutes. Get medical attention.

• **INGESTION**

If swallowed, immediately contact a Poison Control Center. Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

• **EXTINGUISHING MEDIA**

The following media may be used to extinguish a fire involving this material: Water spray; Regular foam; Dry chemical; Carbon dioxide;

• **FIRE FIGHTING INSTRUCTIONS**

Use water spray to cool fire exposed tanks and containers. Wear structural fire fighting gear. The use of fresh air equipment such as Self Contained Breathing Apparatus (SCBA) or Supplied Air Respirators should be worn for fire fighting if exposure or potential exposure to products of combustion is expected.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point				MINUS 40 EST'DCC	F	N/A
Autoignition Temperature				750 ESTIMATED	F	N/A
Lower Explosion Limit	1.5				%	N/A
Upper Explosion Limit	7.6				%	N/A

6. ACCIDENTAL RELEASE MEASURES

Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Vapor can be controlled using a water fog. Water streams should not be directed to the liquid as this will cause the liquid to boil and generate more vapor. Keep personnel upwind from leak. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required.

7. HANDLING AND STORAGE

• **HANDLING**

Use only in a well-ventilated area. Ground and bond containers when transferring material. NFPA class IA storage. Flash point is less than 73 degrees F and boiling point is less than 100 degrees F. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Never siphon by mouth.

• **STORAGE**

Keep away from heat, sparks, and flame. Keep container closed when not in use. Consult NFPA and / or OSHA codes for additional information. Outside or detached storage is preferred.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

• **ENGINEERING CONTROLS**

Use with adequate ventilation. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment.

• **PERSONAL PROTECTION**

§ **EYE PROTECTION**

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

§ **GLOVES or HAND PROTECTION**

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Polyethylene; Neoprene; Nitrile; Polyvinyl alcohol; Viton;

§ **RESPIRATORY PROTECTION**

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

§ **OTHER**

The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyethylene; Neoprene; Nitrile; Viton; Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, positive pressure SCBA and structural firefighter's protective clothing will provide only limited protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Text Result	Reference
Appearance		N/A	CLEAR LIQUID.	
Boiling Point		F	<100-430	
Bulk Density		lb/gal	no data	
Melting Point		F	no data	
Molecular Weight		g/mole	no data	
Octanol/Water Coefficient		N/A	no data	

pH		N/A	no data	
Specific Gravity	0.74	N/A		
Solubility In Water		wt %	NIL	
Odor		N/A	GASOLINE ODOR.	
Odor Threshold		ppm	< 1	
Vapor Pressure		mmHg	325 - 525	@ 20 C
Viscosity (F)		SUS	no data	
Viscosity (C)		CsT	no data	
% Volatile	100	wt %		

10. STABILITY AND REACTIVITY

- **STABILITY**

Stable

- **CONDITIONS TO AVOID**

Avoid heat, sparks and open flame. Avoid static discharge

- **INCOMPATIBILITY**

The following materials are incompatible with this product: Strong oxidizers

- **HAZARDOUS DECOMPOSITION PRODUCTS**

Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

- **HAZARDOUS POLYMERIZATION**

Will not polymerize.

11. ECOLOGICAL INFORMATION

Gasoline spills are toxic to fish and aquatic flora.

12. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>
DOT	Ground	Gasoline

<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>
DOT	Ground	3 (Flammable liquid)	1203	

14. REGULATORY INFORMATION

<u>Regulatory List</u>	<u>Component</u>	<u>CAS No.</u>
ACGIH 2000 - Short Term Exposure Limits	BENZENE	71-43-2
ACGIH 2000 - Short Term Exposure Limits	ETHYL BENZENE	100-41-4
ACGIH 2000 - Short Term Exposure Limits	LIGHT PETROLEUM DISTILLATE	8006-61-9
ACGIH 2000 - Short Term Exposure Limits	NAPHTHALENE	91-20-3
ACGIH 2000 - Short Term Exposure Limits	XYLENE	1330-20-7
ACGIH 2000 - Skin Absorption Designation	BENZENE	71-43-2
ACGIH 2000 - Skin Absorption Designation	N-HEXANE	110-54-3

ACGIH 2000 - Skin Absorption Designation
 ACGIH 2000 - Skin Absorption Designation
 ACGIH 2000 - Time Weighted Averages
 CAA - 1990 Hazardous Air Pollutants
 California - Prop. 65 - Cancer list
 California - Prop. 65 - Cancer list
 California - Prop. 65 - Developmental Toxicity
 California - Prop. 65 - Developmental Toxicity
 Canada - WHMIS: Ingredient Disclosure
 CERCLA/SARA - Haz Substances and their RQs
 CERCLA/SARA - Section 313 - Emission Reporting
 IARC - Group 1 (carcinogenic to humans)
 IARC - Group 2B (Possibly carcinogenic to humans)
 IARC - Group 2B (Possibly carcinogenic to humans)

Inventory - Canada - Domestic Substances List
 Inventory - Canada - Domestic Substances List

NAPHTHALENE	91-20-3
TOLUENE	108-88-3
BENZENE	71-43-2
CUMENE	98-82-8
ETHYL BENZENE	100-41-4
LIGHT PETROLEUM DISTILLATE	8006-61-9
MTBE	1634-04-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TERT-BUTYL ALCOHOL	75-65-0
TOLUENE	108-88-3
XYLENE	1330-20-7
BENZENE	71-43-2
CUMENE	98-82-8
ETHYL BENZENE	100-41-4
MTBE	1634-04-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TOLUENE	108-88-3
XYLENE	1330-20-7
BENZENE	71-43-2
NAPHTHALENE	91-20-3
BENZENE	71-43-2
TOLUENE	108-88-3
1,2,4-TRIMETHYLBENZENE	95-63-6
BENZENE	71-43-2
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
LIGHT PETROLEUM DISTILLATE	8006-61-9
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TERT-BUTYL ALCOHOL	75-65-0
TOLUENE	108-88-3
BENZENE	71-43-2
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
MTBE	1634-04-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TOLUENE	108-88-3
XYLENE	1330-20-7
1,2,4-TRIMETHYLBENZENE	95-63-6
BENZENE	71-43-2
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
MTBE	1634-04-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TERT-BUTYL ALCOHOL	75-65-0
TOLUENE	108-88-3
XYLENE	1330-20-7
BENZENE	71-43-2
ETHYL BENZENE	100-41-4
LIGHT PETROLEUM DISTILLATE	8006-61-9
1,2,4-TRIMETHYLBENZENE	95-63-6
BENZENE	71-43-2

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Inventory - Canada - Domestic Substances List
Inventory - European EINECS Inventory
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Inventory - European EINECS Inventory

Inventory - Japan - (ENCS)

Inventory - Korea - Existing and Evaluated

Inventory - TSCA - Sect. 8(b) Inventory

CUMENE 98-82-8
CYCLOHEXANE 110-82-7
ETHYL BENZENE 100-41-4
LIGHT PETROLEUM 8006-61-9
DISTILLATE
MTBE 1634-04-4
N-HEXANE 110-54-3
NAPHTHALENE 91-20-3
TERT-AMYL METHYL 994-05-8
ETHER
TERT-BUTYL ALCOHOL 75-65-0
TOLUENE 108-88-3
XYLENE 1330-20-7
1,2,4-TRIMETHYLBENZENE 95-63-6
BENZENE 71-43-2
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LIGHT PETROLEUM 8006-61-9
DISTILLATE
MTBE 1634-04-4

Inventory - TSCA - Sect. 8(b) Inventory
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Inventory - TSCA - Sect. 8(b) Inventory
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Inventory - TSCA - Sect. 8(b) Inventory
Massachusetts Right To Know List
Massachusetts Right To Know List

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Massachusetts Right To Know List
Massachusetts Right To Know List
Massachusetts Right To Know List
New Jersey - Department of Health RTK List

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New Jersey - Department of Health RTK List
New Jersey - Department of Health RTK List
New Jersey - Department of Health RTK List
New Jersey - Special Hazardous Substances
New Jersey - Special Hazardous Substances

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NJ Environmental Hazardous Substances List
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NJ Environmental Hazardous Substances List
NJ Environmental Hazardous Substances List
NJ Environmental Hazardous Substances List
NJ Environmental Hazardous Substances List
NTP Ninth Report - Known Carcinogens
OSHA - Final PELs - Ceiling Limits
OSHA - Final PELs - Ceiling Limits
OSHA - Final PELs - Time Weighted Averages
OSHA - Final PELs - Time Weighted Averages
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N-HEXANE	110-54-3
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BENZENE	71-43-2
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OSHA - Final PELs - Time Weighted Averages	ETHYL BENZENE	100-41-4
OSHA - Final PELs - Time Weighted Averages	N-HEXANE	110-54-3
OSHA - Final PELs - Time Weighted Averages	NAPHTHALENE	91-20-3
OSHA - Final PELs - Time Weighted Averages	TERT-BUTYL ALCOHOL	75-65-0
OSHA - Final PELs - Time Weighted Averages	TOLUENE	108-88-3
OSHA - Final PELs - Time Weighted Averages	XYLENE	1330-20-7
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Pennsylvania Right to Know List	TERT-BUTYL ALCOHOL	75-65-0
Pennsylvania Right to Know List	TOLUENE	108-88-3
Pennsylvania Right to Know List	XYLENE	1330-20-7
TSCA - Sect. 12(b) - Export Notification	CYCLOHEXANE	110-82-7
TSCA - Sect. 12(b) - Export Notification	MTBE	1634-04-4
TSCA - Sect. 12(b) - Export Notification	N-HEXANE	110-54-3
TSCA - Sect. 12(b) - Export Notification	TERT-AMYL METHYL ETHER	994-05-8

Title III Classifications Sections 311,312:

- Acute: **YES**
- Chronic: **YES**
- Fire: **YES**
- Reactivity: **NO**
- Sudden Release of Pressure: **NO**

15. OTHER INFORMATION

Precautionary labeling for pumps, portable containers, and drums is required. A "hazardous when empty" pictogram and D.O.T. flammable liquid label are also required for drums. Details available upon request. Because benzene is present in this product above 0.1%, the Osha Standard for benzene is applicable to work locations upstream of final discharge from terminals. Consult 29CFR1910.1028 for details. Prolonged and repeated excessive exposures to benzene can result in blood disorders ranging from anemia to leukemia. Sun recommends that exposures to benzene be kept below 1.0 ppm for 8-hours; 5.0 ppm for 15-min. Normal service station operations are below these values. For use as motor fuel only. Do not use for any other purpose. Catecholamines and similar adrenergic drugs are generally contraindicated because of potential for increased sensitivity of the heart from hydrocarbon overexposure and subsequent ventricular fibrillation. EKG monitoring may be indicated and bronchodilators should be selected with care. Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss. COMPONENT TOXICITY: Overexposure to naphthalene, a minor component of this product, may cause skin, eye and respiratory tract irritation, anemia, loss of vision, nervous system effects and kidney and thymus damage. Also, exposure to naphthalene has produced "respiratory tract" tumors in laboratory animals..