

**** MATERIAL SAFETY DATA SHEET ****

NATURAL GAS

CHES 1728

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**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: NATURAL GAS

Product CAS:

Product Code:

Synonyms: MARSH GAS; METHANE; NATURAL GAS; SYNTHETIC NATURAL GAS

Company Identification:

Name: WISCONSIN GAS COMPANY

Address: P.O. BOX 544

Address:

City: MILWAUKEE State: WI Zip: 53201

For information, call:

Emergency Number: 800-261-5325

Emergency Agency:

Number:

MSDS Creation Date: 03/22/2000

Supersedes Date:

Miscellaneous:

PRODUCT NAME OR CODE: NATURAL GAS

NAME AND/OR OTHER IDENTIFICATION: NATURAL GAS

GENERAL INFORMATION: A MIXTURE OF LOW MOLECULAR WEIGHT HYDROCARBON GAS;
 FUEL GAS DELIVERED IN PIPELINES, USED FROM COMPRESSED GAS CYLINDERS.
 CONSIDERED A SIMPLE ASPHYXIANT.

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Chemical Name	CAS	MIN	MAX
METHANE	74-82-8	90.2	90.2
ETHANE	74-84-0	7.02	7.02
PROPANE	74-98-6	1.0	1.0
ISOBUTANE	75-28-5	0	0
N-BUTANE	106-97-8	0	0
ISOPENTANE	78-78-4	0	0
N-PENTANE	109-66-0	0	0
NEOPENTANE	463-82-1	0	0
OTHER ALIPHATIC HYDROCARBONS	(none)	0	0

Miscellaneous:

INGREDIENT	TLV	PEL	CARCINOGEN
METHANE	---	---	NO
ETHANE	---	---	NO
PROPANE	1500	2500	NO

OTHER TRACE MATERIALS (LT 1% BY WEIGHT) MAY INCLUDE ISOBUTANE, N-BUTANE, ISOPENTANE, N-PENTANE, NEOPENTANE; OTHER ALIPHATIC HYDROCARBONS IN CONCENTRATIONS LT 100 PPM (BY VOLUME); ODOURANT (MIXTURE OF MERCAPTAN AND ALKYL SULFIDE IN CONCENTRATIONS OF LT 50 PPM).

INGREDIENTS SUBJECT TO HABA TITLE III, SECTION 313: NONE

Lbs of VOC per Gallon Coating (minus water):

Coating Density (lbs/gal):

Solvent Density (lbs/gal):

Percent Solvent (volume):

Percent Solids (volume):

Percent Water (volume):

[Return to top](#)****** SECTION 3 - HAZARDS IDENTIFICATION ******

NFPA: Health: 1 Fire: 4 Reactivity: 0 Other:

HMIS: Health: 1 Fire: 4 Reactivity: 0 Special Protection:

Miscellaneous:

HAZARD RATINGS (OSHA):
 TOXICITY: 1
 IGNITABILITY/FLAMMABILITY: 4
 REACTIVITY: 0
 PERSISTENCE: 0

SEE SECTION 11 FOR TOXICOLOGY INFORMATION.

POTENTIAL HEALTH EFFECTS**Target Organs:**

RESPIRATORY SYSTEM, LUNGS - SIMPLE ASPIRYLANT; SKIN AND EYES
 ROUTES OF ENTRY: INHALATION, SKIN AND EYE CONTACT.

Eye:

MAY CAUSE IRRITATION OF EYES IN LARGE CONCENTRATIONS
 SYMPTOMS OF ACUTE EXPOSURE: SEE MISCELLANEOUS.

Skin:

MAY CAUSE IRRITATION OF SKIN IN LARGE CONCENTRATIONS
 SYMPTOMS OF ACUTE EXPOSURE: SEE MISCELLANEOUS.

Ingestion:

SYMPTOMS OF ACUTE EXPOSURE: SEE MISCELLANEOUS.

Inhalation:

SYMPTOMS OF ACUTE EXPOSURE: SEE MISCELLANEOUS.

Miscellaneous:

PRE-EXISTING CONDITION: SOME PULMONARY CONDITIONS.

SEE SECTION 11 FOR MUTAGENIC AND CARCINOGENIC DATA.

SYMPTOMS OF ACUTE EXPOSURE INCLUDE RESPIRATORY ARREST, UNCONSCIOUSNESS,
 MAY CAUSE NAUSEA, VOMITING, DIZZINESS, DROWSINESS, STUPOR, DISCOMFORT AND
 REDNESS TO SKIN AND EYES.

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****** SECTION 4 - FIRST AID MEASURES ********Eye:**

N/A

Skin:

N/A

Ingestion:

N/A

Inhalation:

RESCUE FROM EXCESSIVE EXPOSURE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS
 STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP INDIVIDUAL WARM AND AT REST.

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****** SECTION 5 - FIRE FIGHTING MEASURES ********Unusual Fire and Explosion Hazards:**

RE-IGNITION OR EXPLOSION MAY OCCUR IF THE FLAME IS EXTINGUISHED WITHOUT STOPPING THE FLOW OF GAS AND/OR COOLING SURROUNDINGS AND ELIMINATING IGNITION SOURCES.

Special Fire Fighting Procedures:

WEAR SCBA AND FULL PROTECTIVE GEAR. DO NOT EXTINGUISH FLAMES WHILE GAS IS FLOWING. USE WATER SPRAY TO COOL SURROUNDINGS AND EXPOSURES.

Extinguishing Media:

CARBON DIOXIDE, DRY CHEMICAL, HALON

Flash Point:

-306 F

Flammable Limits:**Lower Limit:**

(LFL): 4%

Upper Limit:

(UFL): 16%

Autoignition Temperature:

900 F - 1200 F

General Information:

THERMAL DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, SULFUR DIOXIDE, NITROGEN OXIDES.

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****** SECTION 6 - ACCIDENTAL RELEASE MEASURES ********Disposal:**

MATERIAL IS A GAS WHICH NATURALLY DISSIPATES.

Spills/Leaks:

EVACUATE AREA. PROVIDE OPTIMUM EXPLOSION-PROOF VENTILATION. SHUT OFF SUPPLY, REMOVE OR ELIMINATE IGNITION SOURCES. MINOR LEAKS CAN BE DETECTED WITH A SOAP SOLUTION APPLIED TO SUSPECTED LEAK POINTS. NEVER USE A FLAME TO DETECT LEAKS.

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**** SECTION 7 - HANDLING and STORAGE ****

Handling:

SEE "STORAGE" BELOW.

Storage:

NATURAL GAS IS CONTAINED AND DELIVERED IN PIPING AND EQUIPMENT DESIGNED FOR ELEVATED PRESSURES. USE EXPLOSION-PROOF CLASS 1, GROUP D ELECTRICAL EQUIPMENT AND NON-SPARKING TOOLS.

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**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

VENTILATION: USE EXPLOSION-PROOF, NON-SPARKING VENTILATION EQUIPMENT TO DILUTE NATURAL GAS.

Eyes:

NONE SPECIFIED.

Skin:

NONE SPECIFIED.

Clothing:

Respirators:

IN AREAS WHERE CONCENTRATIONS MAY EXCEED 10,000 PPM (1%), SUCH AS CONFINED SPACES, ENCLOSED AREAS, ADJACENT TO BLOWING NATURAL GAS, USE SELF-CONTAINED BREATHING APPARATUS (SCBA)

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**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Appearance/Odor:

COLORLESS FLAMMABLE GAS, ALMOST ODORLESS. ODORANTS ADDED AS A SAFETY PRECAUTION IMPART DISTINCTIVE SULFUR-LIKE ODOR.

pH:

Vapor Pressure: (@ 70 F): 760 MM HG

Vapor Density: (AIR=1): 0.6

Evaporation Rate:

Viscosity:

Boiling Point: -258 F

Freezing/Melting Point: -296 F

Decomposition Temperature:

Solubility: NEGLIGIBLE

Specific Gravity: .60

Molecular Formula:

Molecular Weight: 16

Miscellaneous:

SPECIFIC GRAVITY: 0.55 - 0.60 AT 30° HG AND 60 F.

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**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

STABLE; AVOID CONTACT WITH FLAMES OR HEAT SOURCES. COMBINES READILY WITH AIR AND OTHER OXIDIZERS TO FORM A COMBUSTIBLE ATMOSPHERE.

Conditions to Avoid:

Incompatibilities with Other Materials:

OTHER OXIDIZERS INCLUDING CHLORINE, CHLORINE DIOXIDE, BROMINE PENTAFLUORIDE, OXYGEN, OXYGEN DIFLUORIDE, NITROGEN TRIFLUORIDE, FLUORINE MONOXIDE.

Hazardous Decomposition Products:

CARBON MONOXIDE, CARBON DIOXIDE, SULFUR DIOXIDE, NITROGEN OXIDES.

Hazardous Polymerization:

DOES NOT OCCUR.

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**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

Toxicological Information:

MUTAGENIC DATA: NONE KNOWN.

CARCINOGENICITY: NO BY IARC, NTP, OSHA

TOXICOLOGY: PRACTICALLY INERT. SIMPLE ASPHYXIANT BY INSALATION - NATURAL GAS DISPLACES OXYGEN REQUIRED FOR RESPIRATION. MAY ALSO CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION IN LARGE CONCENTRATIONS.

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**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecological Information:

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Other Precautions:

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**** SECTION 14 - TRANSPORT INFORMATION ****

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**** SECTION 15 - REGULATORY INFORMATION ****

Regulatory Information:

29 CFR 1910 (OSHA GENERAL INDUSTRY):

SECTION .20 - ACCESS TO EMPLOYEE EXPOSURE AND MEDICAL RECORDS

SECTION .94 - VENTILATION

SECTION .132 - PERSONAL PROTECTIVE EQUIPMENT

SECTION .134 - RESPIRATORY PROTECTION

SECTION .151 - MEDICAL SERVICES AND FIRST AID

SECTION .1200 - HAZARD COMMUNICATION
SECTION .1400 - HAZARDOUS CHEMICALS IN LABORATORIES

49 CFR 172: REGULATED BY DOT (UN 1971, UN 1972); DOT HAZARD CLASS 2.0

STATE REGULATIONS: MASSACHUSETTS, PENNSYLVANIA, MINNESOTA, CALIFORNIA,
NEW JERSEY RIGHT TO KNOW LISTS.

INTERNATIONAL REGULATIONS: AUSTRALIAN EXPOSURE STANDARDS - ASPHYXIAN; AT
LT 18% OXYGEN, EXPLOSION HAZARD; CANADA - BRITISH COLUMBIA AND ONTARIO
TWAS - SIMPLE ASPHYXIAN; ISRAEL TWAS - SIMPLE ASPHYXIAN.

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**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

MATERIAL SAFETY DATA SHEET
REVISION DATE: 3/22/00

SUPPLIER NAME AND ADDRESS:
WISCONSIN GAS COMPANY
626 EAST WISCONSIN AVENUE
MILWAUKEE, WISCONSIN 53202

THIS MSDS MEETS THE REQUIREMENTS OF OSHA 'HAZARD COMMUNICATION STANDARD'
29 CFR 1910.1200.

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES
CONSIDERED TO BE RELIABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR
KNOWLEDGE AND BELIEF, BUT IS NOT GUARANTEED TO BE SO.

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