

# **Safety Data Sheet** SPECIALTY - METHANE 8.3PP BAL NITROGEN

Central McGowan 123 Roosevelt Road, St. Cloud, MN, 56301 800-569-1322

### **Section 1: Product and Company Identification**

**Central McGowan** 

123 Roosevelt Road, St. Cloud, MN, 56301

Product Code: SPECIALTY - METHANE 8.3PP BAL NITROGEN

Synonyms: SPG NIT 8.3PPM CH4 T

Recommended Use: Usage Restrictions:

#### **Section 2: Hazards Identification**



Hazard Classification: Hazard Statements:

Precautionary Statements

Storage:

Gases Under Pressure

Contains gas under pressure; may explode if heated

Protect from sunlight.

Store in well-ventilated place.

#### **Section 3: Composition/Information on Ingredients**

	CAS#	Concentration
Methane	74-82-8	0.00083ppm
Nitrogen	trogen 7727-37-9 Balance	

MethaneMETHANE, COMPRESSED GASHydrocarbons, Aliphatic, SaturatedFIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4NitrogenNITROGEN, COMPRESSED GASInorganic gasesDIATOMIC NITROGEN; DINITROGEN; NITROGEN-14; NITROGEN GAS: UN 1066: N2		Chemical Substance	Chemical Family	Trade Names
Nitrogen NITROGEN, Inorganic gases DIATOMIC NITROGEN; NITROGEN; NITROGEN-14;	Methane	METHANE, COMPRESSED	Hydrocarbons, Aliphatic,	FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS;
1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		GAS	Saturated	METHANE; UN 1971; R50; CH4
	Nitrogen	,	Inorganic gases	, , ,

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## **Section 4: First Aid Measures**

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

## **Section 5: Fire Fighting Measures**

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters		
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	<ul> <li>Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.</li> <li>Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.</li> </ul>		
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	<ul> <li>Respiratory protection may be needed for frequent or heavy exposure.</li> </ul>		

## **Section 6: Accidental Release Measures**

	Personal Precautions	Environmental Precautions	Methods for Containment
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information
Methane	Not available	NOT AVAILABLE
Nitrogen	N/A	N/A

## Section 7: Handling and Storage

	Handling	Storage
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

## **Section 8: Exposure Controls/Personal Protection**

	Exposure Guidelines
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No
	occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)

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Engineering Controls
Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Methane	Eye protection not required, but recommended.	Protective clothing is not required. Wear appropriate chemical resistant gloves.	Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required. Protective gloves are not required.	Respiratory protection may be needed for frequent or heavy exposure.

### **General Hygiene considerations**

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

## **Section 9: Physical and Chemical Properties**

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor
Methane	Gas	Colorless	Colorless	N/A	Gas	Odorless
Nitrogen	Gas	Clear	Colorless	N/A	Gas	Odorless

	Taste	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits
Methane	Tasteless	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%
Nitrogen	Tasteless	Not flammable	Not available	Not available	Nonflammable	Nonflammable

	Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
Methane	5%	-260 F (-162 C)	-297 F (-183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable
Nitrogen	Nonflammable	-321 F (-196 C)	-346 F (-210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable

	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
Methane	3.5% @ 17 C	Not applicable	Not available	Not applicable	0.01118 cP @ 27 C	16.04
Nitrogen	1.6% @ 20 C	Not applicable	Not available	Not applicable	0.01787 cP @ 27 C	28.0134

	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Methane	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble : Alcohol, ether, benzene, organic solvents
Nitrogen	N2	1.2506 g/L	Not available	100%	1	Soluble : Liquid ammonia

## **Section 10: Stability and Reactivity**

	Stability	Conditions to Avoid	Incompatible Materials	
Methane	Stable at normal temperatures and	Avoid heat, flames, sparks and other	Halogens, oxidizing materials,	
	pressure.	sources of ignition. Containers may	combustible materials	
		rupture or explode if exposed to heat.		

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	Stability	Conditions to Avoid	Incompatible Materials	
Nitrogen	Stable at normal temperatures and pressure.	Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.	Metals, oxidizing materials	

Hazardous Decomposition Products		Possibility of Hazardous Reactions
Methane	Oxides of carbon	Will not polymerize.
Nitrogen	Oxides of nitrogen	Will not polymerize.

# Section 11: Toxicology Information

#### **Acute Effects**

	Oral LD50	Dermal LD50	Inhalation
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

	Eye Irritation	Skin Irritation	Sensitization
Methane	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Nitrogen	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing

#### **Chronic Effects**

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Methane	Not available	Not available	Not available	No data
Nitrogen	Not hazardous	Not available	Not available	No data

## Section 12: Ecological Information

**Fate and Transport** 

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Methane	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.
Nitrogen	Fish toxicity: Not available available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available Other toxicity: Not available		Not available	Not available

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## **Section 13: Disposal Considerations**

Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Nitrogen	Dispose in accordance with all applicable regulations.

## **Section 14: Transportation Information**

#### U.S. DOT 49 CFR 172.101

#### **DOT Information For This Mixture**

Shipping Name	Compressed gas, n.o.s. (Methane, Nitrogen)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	NonFlammable Gas

## **Individual Component Information**

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Methane	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

## **Canadian Transportation of Dangerous Goods**

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Methane	Methane, compressed	UN1971	2.1	Not applicable
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable

## **Section 15: Regulatory Information**

#### **U.S. Regulations**

_	CERCLA Sections	SARA 355.30	SARA 355.40
Methane	Not regulated.	Not regulated.	Not regulated.
Nitrogen	Not regulated.	Not regulated.	Not regulated.

#### **SARA 370.21**

	Acute	Chronic	Fire	Reactive	Sudden Release
Methane	Yes	No	Yes	No	Yes
Nitrogen	Yes	No	No	No	Yes

#### **SARA 372.65**

Methane	Not regulated.
Nitrogen	Not regulated.

#### **OSHA Process Safety**

Methane	Not regulated.
Nitrogen	Not regulated.

#### **State Regulations**

	CA Proposition 65
Methane	Not regulated.
Nitrogen	Not regulated.

#### **Canadian Regulations**

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	WHMIS Classification
Methane	A, B1
Nitrogen	A

## **National Inventory Status**

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Methane	Listed on inventory.	Not listed.	Listed on inventory.
Nitrogen	Listed on inventory.	Not listed.	Listed on inventory.

## **Section 16: Other Information**

	NFPA Rating
Methane	HEALTH=0 FIRE=4 REACTIVITY=0
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

<sup>0 =</sup> minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard