



AIR LIQUIDE AMERICA SPECIALTY GASES LLC
Air_Liquide_America_Specialty_Gases,_LLC

MATERIAL SAFETY DATA SHEETS
DATE: 10/31/07

SUPPLIER ADDRESS: 500 WEAVER PARK RD

LONGMONT, CO 80501
EMERGENCY PHONE: (888) 253-1635
NUMBER

1. CHEMICAL PRODUCT

PRODUCT NAME: METHANE IN AIR SYNONYMS: None

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient Name	Formula	CAS#	Concentration	Exposure Limits (PPM)			
				ACGIH TLV	OSHA PEL	MAC	Other STEL
METHANE	CH ₄	74-82-8	.0001-4 PCT	S/A	S/A	S/A	S/A
AIR	O ₂ /N ₂	132259-10-0	BALANCE	NE	NE	NE	NE

Note: S/A = SIMPLE ASPHYXIAN
NE = NONE ESTABLISHED

3. HAZARD IDENTIFICATION

*** EMERGENCY OVERVIEW ***
High pressure gas.
May accelerate combustion.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Inhalation

ACUTE EFFECTS: None

CHRONIC EFFECTS: None known

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None known

OTHER EFFECTS OF OVEREXPOSURE: None

CARCINOGENICITY (US Only):

NTP - No
IARC MONOGRAPHS - No
OSHA REGULATED - No

Continued ...



4. FIRST AID MEASURES

INHALATION: None

EYE CONTACT: None

SKIN CONTACT: None

INGESTION: None

IN EVENT OF EXPOSURE, CONSULT A
PHYSICIAN

NOTE TO PHYSICIAN: None

5. FIRE FIGHTING MEASURES

FLASH POINT: Nonflammable

AUTOIGNITION TEMPERATURE: N/Ap

FLAMMABLE LIMITS: Nonflammable
LOWER:
UPPER:

EXTINGUISHING MEDIA: Use what is
appropriate for surrounding fire.

SPECIAL FIRE FIGHTING INSTRUCTION AND
EQUIPMENT: Wear self-contained breathing
apparatus and full protective clothing.
Keep fire exposed cylinders cool with
water spray. If possible, stop the
product flow.

HAZARDOUS COMBUSTION PRODUCTS: Toxic
carbon monoxide may be given off during
combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Cylinder rupture may occur under fire
conditions. Compressed air at high
pressure will accelerate the combustion
of flammable materials.

6. ACCIDENTAL RELEASE MEASURES

CLEAN UP PROCEDURES: Evacuate and
ventilate area. Remove leaking cylinder
to exhaust hood or safe outdoor area.
Shut off source if possible and remove
source of heat.

SPECIALIZED EQUIPMENT: None

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING:
Secure cylinder when using to protect
from falling. Use suitable hand truck to
move cylinders.

PRECAUTIONS TO BE TAKEN IN STORAGE:
Store in well ventilated areas. Keep
valve protection cap on cylinders when
not in use.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS: None

PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses

SKIN PROTECTION: None

RESPIRATORY PROTECTION: In case of
leakage, use self-contained breathing
apparatus.

OTHER PROTECTIVE EQUIPMENT: Safety shoes
when handling cylinders.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless

ODOR: Odorless

PHYSICAL STATE: Gas

VAPOR PRESSURE: N/Ap

VAPOR DENSITY (AIR=1): 0.982-1.0

BOILING POINT (C): Gas

SOLUBILITY IN WATER: @20 deg. C: 18.68
cm³/l

SPECIFIC GRAVITY (H₂O=1): Gas

EVAPORATION RATE: Gas

ODOR THRESHOLD: N/Ap

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal storage
conditions.

CONDITIONS TO AVOID: Storage in poorly
ventilated areas. Storage near a heat
source.

MATERIALS TO AVOID: Strong acids,
oxidizers, and active metals. BrF₅,
Cl₂, ClO₂, NF₃, liquid O₂, and OF₂.

Continued ...



HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None

11._TOXICOLOGICAL_INFORMATION

LETHAL CONCENTRATION (LC50): NONE ESTABLISHED

LETHAL DOSE 50 (LD50): N/Ap

TERATOGENICITY: N/Ap

REPRODUCTIVE EFFECTS: N/Ap

MUTAGENICITY: N/Ap

12._ECOLOGICAL_INFORMATION

No adverse ecological effects are expected.

13._DISPOSAL_CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are the refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.

14._TRANSPORT_INFORMATION

CONCENTRATION: 0.0001-4%

DOT DESCRIPTION (US ONLY):

PROPER SHIPPING NAME: Compressed gases, n.o.s.

HAZARD CLASS: 2.2 (nonflammable)

IDENTIFICATION NUMBER: UN1956

REPORTABLE QUANTITIES: None

LABELING: NONFLAMMABLE GAS

ADR/RID (EU Only): Class 2, 1A

SPECIAL PRECAUTIONS: Cylinders should be transported in a secure upright position in a well ventilated truck.

15._REGULATORY_INFORMATION

OSHA: Process Safety Management: Materials are not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemicals.

TSCA: Mixture is not listed in TSCA

inventory.

SARA: The threshold planning quantity for this mixture is 10,000 lbs.

EU NUMBER: N/Av

NUMBER IN ANNEX 1 OF DIR 67/548: Mixture is not listed in annex 1.

EU CLASSIFICATION: N/Av

R: 20

S: 9

16._OTHER_INFORMATION

OTHER PRECAUTIONS: Protect containers from physical damage. Do not deface cylinders or labels. Cylinders should be refilled by qualified producers of compressed gas. Shipment of a compressed gas cylinder which has not been filled by the owner or with his written consent is a violation of federal law (49 CFR).

ABBREVIATIONS:

N/Ap - Not Applicable

N/Av - Not Available

SA - Simple Asphyxiant

NE - None Established

DISCLAIMER: Information included in this document is given to the best of our knowledge, however, no warranty is made that the information is accurate or complete. We do not accept any responsibility for damages by the use of the document.