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SDS

Common Name: PRECISION CALIBRATION GAS MIXTURE, G-1315**Manufacturer:** GASCO**SDS Revision Date:** 11/19/2015**SDS Format:** GHS-US**Item Number(s):** 33V740, 34VJ43, 36LR42, 36LR43, 36LR44**Manufacturer Model Number(s):**

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GASCO (R*)

SAFETY DATA SHEET (SDS)

OSHA HAZCOM STANDARD 29 CFR 1910.1200 (G) AND GHS

REV: 03.

ISSUE DATE: 11/19/2015

REVIEWED ON: 11/19/2015

1 IDENTIFICATION

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PRODUCT IDENTIFIER:

TRADE NAME: PRECISION CALIBRATION GAS MIXTURE

PRODUCT NUMBER: G-1315

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED

AGAINST:

USED FOR CALIBRATION OF GAS MEASURING DEVICES. NOT SUITABLE FOR HUMAN CONSUMPTION.

PRODUCT DESCRIPTION:

CALIBRATION GAS MIXTURE CONSISTING OF CARBON MONOXIDE, HYDROGEN SULFIDE, METHANE, OXYGEN AND NITROGEN.

APPLICATION OF THE SUBSTANCE / THE MIXTURE:

PRESSURIZED GAS, REQUIRES APPROPRIATE REGULATOR TO DISPENSE.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**MANUFACTURER/SUPPLIER:**

GASCO AFFILIATES, LLC
320 SCARLETT BLVD.
OLDSMAR, FL 34677

TELEPHONE NUMBER: (800) 910-0051

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INSIDE THE US: 1 800-424-9300 (CHEMTREC, 24 HOURS)
OUTSIDE THE US: 1-703-527-3887 (CHEMTREC, 24 HOURS)

2 HAZARD(S) IDENTIFICATION

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CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

AGHS04: GAS CYLINDER

PRESS. GAS:

H280: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.

GHS08: HEALTH HAZARD

REPR. 1A:

H360: MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

GHS07: EXCLAMATION MARK

ACUTE TOX. 4:

H332: HARMFUL IF INHALED.

SIMPLE ASPHYXIANANT: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

LABEL ELEMENTS:**GHS LABEL ELEMENTS:**

THE PRODUCT IS CLASSIFIED AND LABELED ACCORDING TO THE GLOBALLY HARMONIZED SYSTEM (GHS).

HAZARD PICTOGRAMS:

GHS04: GAS CYLINDER
GHS07: EXCLAMATION MARK
GHS08: HEALTH HAZARD

SIGNAL WORD: DANGER

HAZARD-DETERMINING COMPONENTS OF LABELING: CARBON MONOXIDE

HAZARD STATEMENTS:

CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
HARMFUL IF INHALED.
MAY DAMAGE FERTILITY OR THE UNBORN CHILD.
MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

PRECAUTIONARY STATEMENTS:

AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.

USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

IF INHALED:

REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.
CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

STORE LOCKED UP.

PROTECT FROM SUNLIGHT. STORE IN A WELL-VENTILATED PLACE.

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH
LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

UNKNOWN ACUTE TOXICITY:

100% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN TOXICITY.

CLASSIFICATION SYSTEM:

NFPA RATINGS (SCALE 0 - 4):

HEALTH 0
FIRE 1
REACTIVITY 0

HMIS-RATINGS (SCALE 0 - 4):

HEALTH 0
FIRE 1
REACTIVITY 0

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): NONE KNOWN

3 COMPOSITION/INFORMATION ON INGREDIENTS



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CHEMICAL CHARACTERIZATION: MIXTURES

DESCRIPTION:

MIXTURE OF SUBSTANCES LISTED BELOW WITH NON-HAZARDOUS ADDITIONS.

DANGEROUS COMPONENTS:

CAS: 7727-37-9	NITROGEN	75.3901 - 91.799%
RTECS: QW 9700000	PRESS. GAS, H280; SIMPLE ASPHYXIAN	

CAS: 7782-44-7	OXYGEN	8 - 21%
	OXID. GAS 1, H270	
	PRESS. GAS, H280	

CAS: 74-82-8	METHANE	0.1 - 3.0%
RTECS: PA 1490000	FLAM. GAS 1, H220 PRESS. GAS, H280	
CAS: 630-08-0	CARBON MONOXIDE	0.0005 - 0.51%
RTECS: FG 3500000	FLAM. GAS 1, H220 ACUTE TOX. 3, H331 REPR. 1A, H360 STOT RE 1, H372 PRESS. GAS, H280	
CAS: 7783-06-4	HYDROGEN SULFIDE	0.0005 - 0.0999%
	FLAM. GAS 1, H220 ACUTE TOX. 2, H330 AQUATIC ACUTE 1, H400 PRESS. GAS, H280	

4 FIRST-AID MEASURES



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DESCRIPTION OF FIRST AID MEASURES:

AFTER INHALATION:

GENERALLY THE PRODUCT DOES NOT IRRITATE WITH INHALATION.

SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. CONSULT DOCTOR IF SYMPTOMS PERSIST.

IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN SIDE POSITION FOR TRANSPORTATION.

AFTER SKIN CONTACT:

GENERALLY THE PRODUCT DOES NOT IRRITATE THE SKIN.

IN CASES OF CONTACT WITH LIQUIFIED MATERIAL, FROSTBITE MAY OCCUR. IMMERSER FROSTBITE IN COOL-WARM WATER AND SEEK MEDICAL ATTENTION.

AFTER EYE CONTACT:

NOT ANTICIPATED UNDER NORMAL USE.

IF IRRITATION OCCURS THOROUGHLY WASH THE EXPOSED AREA AND DISCONTINUE USE. SEEK MEDICAL ATTENTION IF ANY ADVERSE EFFECT OCCURS.

AFTER SWALLOWING: NOT A NORMAL ROUTE OF ENTRY.

INFORMATION FOR DOCTOR:

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
NO FURTHER RELEVANT INFORMATION AVAILABLE.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
NO FURTHER RELEVANT INFORMATION AVAILABLE.

5 FIRE-FIGHTING MEASURES



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EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING AGENTS:

USE FIRE FIGHTING MEASURES THAT SUIT THE ENVIRONMENT.

USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

IF INCINERATED, PRODUCT WILL RELEASE THE FOLLOWING TOXIC FUMES:

OXIDES OF CARBON, NITROGEN (NOX) AND SULFUR.

ADVICE FOR FIREFIGHTERS:

THIS GAS MIXTURE IS NOT FLAMMABLE; HOWEVER, CONTAINERS, WHEN INVOLVED IN FIRE, MAY RUPTURE OR BURST IN THE HEAT OF THE FIRE. FIREFIGHTERS SHOULD BE AWARE OF THE PRESENCE OF HYDROGEN SULFIDE IN THIS GAS MIXTURE, WHICH CAN CAUSE SIGNIFICANT HEALTH EFFECTS.

PROTECTIVE EQUIPMENT:

AS IN ANY FIRE WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR TO PREVENT CONTACT WITH SKIN AND EYES.

6 ACCIDENTAL RELEASE MEASURES



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PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED.

TREAT ANY FUMES AS TOXIC.

ENVIRONMENTAL PRECAUTIONS: INFORM AUTHORITIES IN CASE OF GAS RELEASE.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

DISPOSE CONTAMINATED MATERIAL AS WASTE ACCORDING TO SECTION 13.

ENSURE ADEQUATE VENTILATION.

DISPOSE OF THE COLLECTED MATERIAL ACCORDING TO REGULATIONS.

REFERENCE TO OTHER SECTIONS:

SEE SECTION 7 FOR INFORMATION ON SAFE HANDLING.

SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT.

SEE SECTION 13 FOR DISPOSAL INFORMATION.

7 HANDLING AND STORAGE



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HANDLING:**PRECAUTIONS FOR SAFE HANDLING:**

ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE.

OPEN AND HANDLE RECEPTACLE WITH CARE.

BE AWARE OF ANY SIGNS OF DIZZINESS OR FATIGUE; EXPOSURES TO FATAL CONCENTRATIONS OF THIS GAS MIXTURE COULD OCCUR WITHOUT ANY SIGNIFICANT WARNING SYMPTOMS DUE TO THE POTENTIAL FOR OXYGEN DEFICIENCY (SIMPLE ASPHYXIATION). DO NOT ATTEMPT TO ADJUST, REPAIR OR IN ANY OTHER WAY MODIFY THE CYLINDERS CONTAINING THIS GAS MIXTURE. IF THERE IS A MALFUNCTION OR ANOTHER TYPE OF OPERATIONAL PROBLEM, CONTACT NEAREST DISTRIBUTOR IMMEDIATELY.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

PRESSURIZED CONTAINER:

PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C, I.E. ELECTRIC LIGHTS. DO NOT PIERCE OR BURN, EVEN AFTER USE.

KEEP PROTECTIVE RESPIRATORY DEVICE AVAILABLE.

DO NOT CUT, GRIND OR WELD ON CONTAINER THAT CONTAINS OR CONTAINED PRODUCT.

DO NOT SPRAY ON A NAKED FLAME OR ANY INCANDESCENT MATERIAL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORE AWAY FROM STRONG OXIDIZING AGENTS, STRONG BASES, PHOSPHOROUS, ORGANIC MATERIALS AND POWDERED METALS.

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:
STORE IN A COOL LOCATION.

CYLINDERS SHOULD BE FIRMLY SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. CYLINDERS MUST BE PROTECTED FROM THE ENVIRONMENT, AND PREFERABLY KEPT AT ROOM TEMPERATURE. CYLINDERS SHOULD BE STORED IN DRY, WELL-VENTILATED AREAS, AWAY FROM SOURCES OF HEAT, IGNITION, AND DIRECT SUNLIGHT. PROTECT CYLINDERS AGAINST PHYSICAL DAMAGE. FULL AND EMPTY CYLINDERS SHOULD BE SEGREGATED. USE A "FIRST-IN, FIRST-OUT" INVENTORY SYSTEM TO PREVENT FULL CONTAINERS FROM BEING STORED FOR LONG PERIODS OF TIME.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT REQUIRED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES.

SPECIFIC END USE(S): NO FURTHER RELEVANT INFORMATION AVAILABLE.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:
NO FURTHER DATA; SEE SECTION 7.

CONTROL PARAMETERS:

ALL VENTILATION SHOULD BE DESIGNED IN ACCORDANCE WITH OSHA STANDARD (29 CFR 1910.94). USE MECHANICAL (GENERAL) VENTILATION FOR STORAGE AREAS. USE APPROPRIATE VENTILATION AS REQUIRED TO KEEP EXPOSURE LIMITS IN AIR BELOW TLV & PEL LIMITS.

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS:**7727-37-9 NITROGEN:**

TLV: WITHDRAWN TLV, SEE APP. F; SIMPLE ASPHYXIANANT

74-82-8 METHANE:

TLV: REFER TO APPENDIX F, 1000 PPM

630-08-0 CARBON MONOXIDE:

PEL:

LONG-TERM VALUE: 55 MG/M3, 50 PPM

REL:

LONG-TERM VALUE: 40 MG/M3, 35 PPM

CEILING LIMIT VALUE: 229 MG/M3, 200 PPM

TLV:

LONG-TERM VALUE: 29 MG/M3, 25 PPM

BEI

7783-06-4 HYDROGEN SULFIDE:

PEL:

CEILING LIMIT VALUE: 20; 50* PPM
*10-MIN PEAK; ONCE PER 8-HR SHIFT

REL:

CEILING LIMIT VALUE: 15* MG/M3, 10* PPM
*10-MIN

TLV:

SHORT-TERM VALUE: 7 MG/M3, 5 PPM
LONG-TERM VALUE: 1.4 MG/M3, 1 PPM

INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:

630-08-0 CARBON MONOXIDE:

BEI: 3.5% OF HEMOGLOBIN

BLOOD

END OF SHIFT

CARBOXYHEMOGLOBIN (BACKGROUND, NONSPECIFIC)

20 PPM

END-EXHALED AIR

END OF SHIFT

CARBON MONOXIDE (BACKGROUND, NONSPECIFIC)

ADDITIONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION OF THIS SDS WERE USED AS BASIS.

EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

KEEP AWAY FROM FOODSTUFFS BEVERAGES AND FEED.

IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.

STORE PROTECTIVE CLOTHING SEPARATELY.

BREATHING EQUIPMENT:

NOT NECESSARY IF ROOM IS WELL-VENTILATED.

IN CASE OF BRIEF EXPOSURE OR LOW POLLUTION USE RESPIRATORY FILTER DEVICE.

IN CASE OF INTENSIVE OR LONGER EXPOSURE, USE RESPIRATORY PROTECTIVE DEVICE THAT IS INDEPENDENT OF CIRCULATING AIR.

PROTECTION OF HANDS: NOT REQUIRED.

EYE PROTECTION: NOT NECESSARY UNDER NORMAL CONDITIONS.

9 PHYSICAL AND CHEMICAL PROPERTIES



INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

GENERAL INFORMATION:

APPEARANCE:

FORM: GASEOUS

COLOR: CLEAR, COLORLESS

ODOR: MILD

ODOR THRESHOLD: NOT DETERMINED.

PH-VALUE: ACIDIC

CHANGE IN CONDITION:

MELTING POINT/MELTING RANGE: NOT DETERMINED.

BOILING POINT/BOILING RANGE: -195 DEG. C (-319 DEG. F)

FLASH POINT: NONE

FLAMMABILITY (SOLID, GASEOUS): NOT DETERMINED.

IGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE: NOT DETERMINED.

AUTO IGNITING: PRODUCT IS NOT SELF-IGNITING.

DANGER OF EXPLOSION: NOT DETERMINED.

EXPLOSION LIMITS:

LOWER: NOT DETERMINED.

UPPER: NOT DETERMINED.

VAPOR PRESSURE: NOT DETERMINED.

DENSITY @ 20 DEG. C (68 DEG. F): 0.023 G/CM3 (0.192 LBS/GAL)

RELATIVE DENSITY: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: NOT APPLICABLE.

SOLUBILITY IN / MISCIBILITY WITH WATER: NOT MISCIBLE OR DIFFICULT TO MIX.

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT DETERMINED.

VISCOSITY:

DYNAMIC: NOT DETERMINED.

KINEMATIC: NOT DETERMINED.

SOLVENT CONTENT:

ORGANIC SOLVENTS: 0.0%

OTHER INFORMATION: NO FURTHER RELEVANT INFORMATION AVAILABLE.

10 STABILITY AND REACTIVITY

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REACTIVITY: STABLE UNDER NORMAL CONDITIONS.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED:

NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: NO DANGEROUS REACTIONS KNOWN.

CONDITIONS TO AVOID: HEAT, FLAME AND IGNITION SOURCES.

INCOMPATIBLE MATERIALS:

STRONG OXIDIZING AGENTS, STRONG BASES, PHOSPHOROUS, ORGANIC MATERIALS AND POWDERED METALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF CARBON, NITROGEN (NOX) AND SULFUR.

11 TOXICOLOGICAL INFORMATION



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INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION:

630-08-0 CARBON MONOXIDE:

INHALATIVE:

LC50/4 H: 17520 MG/L (RAT)

7783-06-4 HYDROGEN SULFIDE:

INHALATIVE:

LC50/4 H:

634 MG/L (MOUSE)

444 MG/L (RAT)

LC50/96 HOURS: 0.016 MG/L (PIMEPHALES)

74-82-8 METHANE:

INHALATIVE:

LC50/4 H: 217 MG/L (MOUSE)

PRIMARY IRRITANT EFFECT:

ON THE SKIN: NO IRRITATING EFFECT.

ON THE EYE: NO IRRITATING EFFECT.

ADDITIONAL TOXICOLOGICAL INFORMATION:

THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS:

CARCINOGENIC CATEGORIES:

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):

GROUP 1 - CARCINOGENIC TO HUMANS

GROUP 2A - PROBABLY CARCINOGENIC TO HUMANS

GROUP 2B - POSSIBLY CARCINOGENIC TO HUMANS

GROUP 3 - NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS

GROUP 4 - PROBABLY NOT CARCINOGENIC TO HUMANS

NONE OF THE INGREDIENTS ARE LISTED.

NTP (NATIONAL TOXICOLOGY PROGRAM): NONE OF THE INGREDIENTS ARE LISTED.

OSHA-CA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION):

NONE OF THE INGREDIENTS ARE LISTED.

12 ECOLOGICAL INFORMATION



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TOXICITY: THE HAZARDS FOR THE AQUATIC ENVIRONMENT ARE UNKNOWN.

AQUATIC TOXICITY: NO FURTHER RELEVANT INFORMATION AVAILABLE.

PERSISTENCE AND DEGRADABILITY: NO FURTHER RELEVANT INFORMATION AVAILABLE.

BEHAVIOR IN ENVIRONMENTAL SYSTEMS:

BIOACCUMULATIVE POTENTIAL: NO FURTHER RELEVANT INFORMATION AVAILABLE.

MOBILITY IN SOIL: NO FURTHER RELEVANT INFORMATION AVAILABLE.

ADDITIONAL ECOLOGICAL INFORMATION:

GENERAL NOTES: GENERALLY NOT HAZARDOUS FOR WATER.

RESULTS OF PBT AND VPVB ASSESSMENT:

PBT: NOT APPLICABLE.

VPVB: NOT APPLICABLE.

OTHER ADVERSE EFFECTS: NO FURTHER RELEVANT INFORMATION AVAILABLE.

13 DISPOSAL CONSIDERATIONS



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WASTE TREATMENT METHODS:

RECOMMENDATION:

RELEASE ALL RESIDUAL GAS PRESSURE IN A WELL VENTILATED AREA. VERIFY THE CYLINDER IS COMPLETELY EMPTY (0 PSIG).

REMOVE OR COVER ANY HAZARD LABELS. RETURN EMPTY SUPPLIER FOR RECYCLING.

NOTE:

CHECK WITH THE LOCAL WASTE AUTHORITY BEFORE PLACING ANY GAS CYLINDER INTO A WASTE CONTAINER FOR PICKUP.

GASCO ENCOURAGES THE CONSUMER TO RETURN ALL CYLINDERS.

WASTE DISPOSAL KEY:

THE U.S. EPA HAS NOT PUBLISHED WASTE NUMBERS FOR THIS PRODUCT'S COMPONENTS.

UNCLEANED PACKAGINGS:

RECOMMENDATION: RETURN CYLINDER AND UNUSED PRODUCT TO SUPPLIER.

14 TRANSPORT INFORMATION



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UN-NUMBER:

DOT, ADR, IMDG, IATA: UN1956

UN PROPER SHIPPING NAME:

DOT: COMPRESSED GAS, N.O.S.

ADR: UN1956 COMPRESSED GAS, N.O.S.

IMDG, IATA: COMPRESSED GAS, N.O.S.

TRANSPORT HAZARD CLASS(ES):

DOT: NON-FLAMMABLE GAS, CLASS/DIVISION 2.2

CLASS: 2.2

LABEL: 2.2

ADR: CLASS 2.2, NON-FLAMMABLE AND NON-TOXIC GASES

CLASS: 2.2 1A

LABEL: 2.2

IMDG, IATA: CLASS 2.2, NON-FLAMMABLE AND NON-TOXIC GASES

CLASS: 2.2

LABEL: 2.2

PACKING GROUP:

ENVIRONMENTAL HAZARDS: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER: NOT APPLICABLE.

DANGER CODE (KEMLER): 20

EMS NUMBER: F-C, S-V

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE:
NOT APPLICABLE.

TRANSPORT/ADDITIONAL INFORMATION:

DOT:

QUANTITY LIMITATIONS:

ON PASSENGER AIRCRAFT/RAIL: 75 KG
ON CARGO AIRCRAFT ONLY: 150 KG

ADR:

EXCEPTED QUANTITIES (EQ):

CODE: E1
MAXIMUM NET QUANTITY PER INNER PACKAGING: 30 ML
MAXIMUM NET QUANTITY PER OUTER PACKAGING: 1000 ML

UN "MODEL REGULATION": UN1956, COMPRESSED GAS, N.O.S., 2.2

15 REGULATORY INFORMATION



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SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE
SUBSTANCE OR MIXTURE:

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION):

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

7783-06-4 HYDROGEN SULFIDE

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

7783-06-4 HYDROGEN SULFIDE

TSCA (TOXIC SUBSTANCES CONTROL ACT): ALL INGREDIENTS ARE LISTED.

CALIFORNIA PROPOSITION 65:

CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES:
NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES:
NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY:

630-08-0 CARBON MONOXIDE

CARCINOGENIC CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY):

7783-06-4 HYDROGEN SULFIDE I

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH):
NONE OF THE INGREDIENTS ARE LISTED.

NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH):
NONE OF THE INGREDIENTS ARE LISTED.

GHS LABEL ELEMENTS:

THE PRODUCT IS CLASSIFIED AND LABELED ACCORDING TO THE GLOBALLY HARMONIZED SYSTEM (GHS).

HAZARD PICTOGRAMS:

GHS04: GAS CYLINDER
GHS07: EXCLAMATION MARK
GHS08: HEALTH HAZARD

SIGNAL WORD: DANGER

HAZARD-DETERMINING COMPONENTS OF LABELING: CARBON MONOXIDE

HAZARD STATEMENTS:

CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
HARMFUL IF INHALED.
MAY DAMAGE FERTILITY OR THE UNBORN CHILD.
MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

PRECAUTIONARY STATEMENTS:

AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.

USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA

WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL

IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

STORE LOCKED UP.

PROTECT FROM SUNLIGHT. STORE IN A WELL-VENTILATED PLACE.

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH
LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

NATIONAL REGULATIONS:

THE PRODUCT IS SUBJECT TO BE CLASSIFIED ACCORDING WITH THE LATEST VERSION
OF THE REGULATIONS ON HAZARDOUS SUBSTANCES.

STATE RIGHT TO KNOW:

CAS: 7727-37-9 RTECS: QW 9700000	NITROGEN PRESS. GAS, H280 SIMPLE ASPHYXIAN	75.3901 - 91.799%
CAS: 7782-44-7	OXYGEN OXID. GAS 1, H270 PRESS. GAS, H280	8 - 21%
CAS: 74-82-8 RTECS: PA 1490000	METHANE FLAM. GAS 1, H220 PRESS. GAS, H280	0.1 - 3.0%
CAS: 630-08-0 RTECS: FG 3500000	CARBON MONOXIDE FLAM. GAS 1, H220 ACUTE TOX. 3, H331 REPR. 1A, H360 STOT RE 1, H372 PRESS. GAS, H280	0.0005 - 0.51%
CAS: 7783-06-4	HYDROGEN SULFIDE FLAM. GAS 1, H220 ACUTE TOX. 2, H330 AQUATIC ACUTE 1, H400 PRESS. GAS, H280	0.0005 - 0.0999%

ALL INGREDIENTS ARE LISTED.

CHEMICAL SAFETY ASSESSMENT:

A CHEMICAL SAFETY ASSESSMENT HAS NOT BEEN CARRIED OUT.

16 OTHER INFORMATION [top](#)

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RELEVANT PHRASES:

GASCO AFFILIATES, LLC, MAKES NO EXPRESS OR IMPLIED WARRANTIES, GUARANTEES
OR REPRESENTATIONS REGARDING THE PRODUCT OR THE INFORMATION HEREIN,
INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR
FITNESS FOR USE. GASCO AFFILIATES, LLC SHALL NOT BE LIABLE FOR ANY PERSONAL
INJURY, PROPERTY OR OTHER DAMAGES OF ANY NATURE, WHETHER COMPENSATORY,
CONSEQUENTIAL, EXEMPLARY, OR OTHERWISE, RESULTING FROM ANY PUBLICATION,
USE OR RELIANCE UPON THE INFORMATION HEREIN.

DATE OF PREPARATION / LAST REVISION: 11/19/2015

ABBREVIATIONS AND ACRONYMS:**ADR:**

THE EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS
GOODS BY ROAD

ADN:

THE EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS
GOODS BY INLAND WATERWAYS

IMDG: INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS

DOT: US DEPARTMENT OF TRANSPORTATION

IATA: INTERNATIONAL AIR TRANSPORT ASSOCIATION

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

EINECS: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

ELINCS: EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

CAS: CHEMICAL ABSTRACTS SERVICE (DIVISION OF THE AMERICAN CHEMICAL SOCIETY)

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION (USA)

HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (USA)

LC50: LETHAL CONCENTRATION, 50 PERCENT

LD50: LETHAL DOSE, 50 PERCENT

PBT: PERSISTENT, BIOACCUMULATIVE AND TOXIC

VPVB: VERY PERSISTENT AND VERY BIOACCUMULATIVE

NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY

OSHA: OCCUPATIONAL SAFETY & HEALTH

TLV: THRESHOLD LIMIT VALUE

PEL: PERMISSIBLE EXPOSURE LIMIT

REL: RECOMMENDED EXPOSURE LIMIT

BEI: BIOLOGICAL EXPOSURE LIMIT

FLAM. GAS 1: FLAMMABLE GASES, HAZARD CATEGORY 1

OXID. GAS 1: OXIDISING GASES, HAZARD CATEGORY 1

PRESS. GAS:
GASES UNDER PRESSURE: COMPRESSED GAS

ACUTE TOX. 2: ACUTE TOXICITY, HAZARD CATEGORY 2

ACUTE TOX. 3: ACUTE TOXICITY, HAZARD CATEGORY 3

ACUTE TOX. 4: ACUTE TOXICITY, HAZARD CATEGORY 4

REPR. 1A: REPRODUCTIVE TOXICITY, HAZARD CATEGORY 1A

STOT RE 1:
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE, HAZARD CATEGORY 1

AQUATIC ACUTE 1:
HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD, CATEGORY 1

| DATA COMPARED TO THE PREVIOUS VERSION ALTERED.

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