

# Safety Data Sheet 50257

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/24/2015 Revision date: 08/15/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Oxygen (19.5 - 23.5%,) Pentane (0.1 - 0.75%,) Hydrogen Sulfide (0.001-0.025%) in balance

Nitrogen

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Test gas/Calibration gas.

#### 1.3. Details of the supplier of the safety data sheet

Calgaz, division of Air Liquide 821 Chesapeake Drive Cambridge, 21613 - USA

T 1-410-228-6400 - F 1-410-228-4251 <u>info@Calgaz.com</u> - <u>www.Calgaz.com</u>

# 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Internationally: 1-703-527-3887

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification (GHS-US)

Compressed gas H280

Full text of H-phrases: see section 16

# 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS04

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood

P271 - Use only outdoors or in a well-ventilated area

P403 - Store in a well-ventilated place

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution

CGA-PG21 - Open valve slowly

### 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

# 3.2. Mixture

03/24/2015 EN (English US) SDS ID: 50257 Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification (GHS-US)
Nitrogen	(CAS No) 7727-37-9	75.725 - 80.399	Compressed gas, H280
Oxygen	(CAS No) 7782-44-7	19.5 - 23.5	Ox. Gas 1, H270
n-Pentane	(CAS No) 109-66-0	0.1 - 0.75	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrogen sulfide	(CAS No) 7783-06-4	0.001 - 0.025	Flam. Gas 1, H220 Liquefied gas, H280 Acute Tox. 2 (Inhalation:gas), H330 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

### **Description of first aid measures**

First-aid measures general Adverse effects not expected from this product. If you feel unwell, seek medical advice (show

the label where possible).

First-aid measures after inhalation : Adverse effects not expected from this product. First-aid measures after skin contact Adverse effects not expected from this product. First-aid measures after eye contact Adverse effects not expected from this product.

First-aid measures after ingestion Ingestion is not considered a potential route of exposure.

### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Adverse effects not expected from this product. Symptoms/injuries after skin contact : Adverse effects not expected from this product. Symptoms/injuries after eye contact : Adverse effects not expected from this product.

Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous

administration

: Not known.

Chronic symptoms : Adverse effects not expected from this product.

# Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

# **SECTION 5: Firefighting measures**

# **Extinguishing media**

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet to extinguish.

# Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

**Explosion hazard** Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire

and increasing risk of burns and injuries.

Reactivity : None known.

# Advice for firefighters

Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray

or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire Protection during firefighting

fighters. Do not enter fire area without proper protective equipment, including respiratory

protection.

Exposure to fire may cause containers to rupture/explode. Continue water spray from protected Specific methods

position until container stays cool. Move containers away from the fire area if this can be done without risk.

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

03/24/2015 EN (English US) SDS ID: 50257 2/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment consistent with the site emergency plan.

Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent

premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep

upwind.

#### 6.1.2. For emergency responders

Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate and limit access. Ventilate area.

# 6.2. Environmental precautions

Try to stop release if safe to do so.

#### 6.3. Methods and material for containment and cleaning up

For containment : Try to stop release if safe to do so.

Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

# 6.4. Reference to other sections

See also Sections 8 and 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or

in a well-ventilated area.

Safe handling of the gas receptacle : Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not remove or

deface labels provided by the supplier for the identification of the cylinder contents.

Safe use of the product : The substance must be handled in accordance with good industrial hygiene and safety

procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.

Contact your gas supplier if in doubt.

Hygiene measures : Do not eat, drink or smoke when using this product.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : None known.

Storage conditions : Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in

use. Protect cylinder from physical damage. Store in well ventilated area.

Incompatible products : None known.
Incompatible materials : Flammable materials.

Storage area : Store away from heat. Store in a well-ventilated place.

# 7.3. Specific end use(s)

See Section 1.2.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Oxygen (19.5 - 23.5%,) Pentane (0.1 - 0.75%,) Hydrogen Sulfide (0.001-0.025%) in balance Nitrogen		
ACGIH	Not applicable	
OSHA	Not applicable	
Oxygen (7782-44-7)		
Oxygen (7782-44-7)		
<b>Oxygen (7782-44-7)</b> ACGIH	Not applicable	

n-Pentane (109-66-0)		
ACGIH	ACGIH TWA (ppm)	600 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2950 mg/m³

03/24/2015 EN (English US) SDS ID: 50257 3/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

n-Pentane (109-66-0)			
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
Hydrogen sulfide (7783-06-4)			
ACGIH	ACGIH TWA (ppm)	1 ppm	
ACGIH	ACGIH STEL (ppm)	5 ppm	
OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm	
Nitrogen (7727-37-9)			
ACGIH	Not applicable	Not applicable	
OSHA	Not applicable		

#### **Exposure controls**

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Systems under pressure should be

regularly checked for leakages. Consider work permit system e.g. for maintenance activities.

Ensure exposure is below occupational exposure limits.

Hand protection : Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection. Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection. Eye protection

Skin and body protection Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.

Respiratory protection None necessary during normal and routine operations. See Sections 5 & 6.

Thermal hazard protection None necessary during normal and routine operations.

Environmental exposure controls Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for

specific methods for waste gas treatment.

Other information Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Physical state

**Appearance** Clear, colorless gas.

Molecular mass Not applicable for gas-mixtures.

Color Colorless Rotten eggs Odor Odor threshold No data available

Not applicable for gas-mixtures. На

Relative evaporation rate (butyl acetate=1) No data available

Relative evaporation rate (ether=1) Not applicable for gas-mixtures.

Melting point No data available Freezing point No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) See Sect. 2.1 & 2.2 Vapor pressure Not applicable. Relative vapor density at 20 °C No data available Relative density No data available Relative gas density Lighter or similar to air.

Water: Solubility in water of component(s) of the mixture : Solubility

•: 39 mg/l •: < 1 mg/l •: 20 mg/l •: 3980 mg/l

Log Pow : Not applicable for gas-mixtures. Log Kow : Not applicable for gas-mixtures.

Viscosity, kinematic : Not applicable. Viscosity, dynamic : Not applicable.

03/24/2015 EN (English US) SDS ID: 50257 4/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive properties : Not applicable - not flammable.

Oxidizing properties : Supports combustion. Not combustible but enhances combustion of other substances.

Explosive limits : Not applicable - not flammable

9.2. Other information

Additional information : None.

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None known.

# 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Can form explosive mixtures with flammable materials.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Flammable materials.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Oxygen (7782-44-7)		
LC50 inhalation rat (ppm)	800000 ppm/4h	
n-Pentane (109-66-0)		
LD50 dermal rabbit	3000 mg/kg	
LC50 inhalation rat (mg/l)	364 g/m³ (Exposure time: 4 h)	
LC50 inhalation rat (ppm)	123317.17 ppm/4h	
ATE US (dermal)	3000.000 mg/kg body weight	
ATE US (gases)	123317.170 ppmV/4h	
ATE US (vapors)	364.000 mg/l/4h	
ATE US (dust, mist)	364.000 mg/l/4h	
Hydrogen sulfide (7783-06-4)		
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)	
LC50 inhalation rat (ppm)	356 ppm/4h	
ATE US (gases)	100.000 ppmV/4h	
Nitrogen (7727-37-9)		
LC50 inhalation rat (ppm)	820000 ppm/4h	
Skin corrosion/irritation	: Not classified	
	pH: Not applicable for gas-mixtures.	
Serious eye damage/irritation	: Not classified	
	pH: Not applicable for gas-mixtures.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	

03/24/2015 EN (English US) SDS ID: 50257 5/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard

: Not classified

Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Adverse effects not expected from this product.Adverse effects not expected from this product.Adverse effects not expected from this product.

: Ingestion is not considered a potential route of exposure.

Symptoms/injuries after ingestion Symptoms/injuries upon intravenous

administration

: Not known.

Chronic symptoms

: Adverse effects not expected from this product.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : No ecological damage caused by this product.

n-Pentane (109-66-0)		
LC50 fish 1	9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
EC50 Daphnia 1	9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
Hydrogen sulfide (7783-06-4)		
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])	
EC50 Daphnia 1	0.022 mg/l (Exposure time: 96 h - Species: Gammarus pseudolimnaeus)	
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	

# 12.2. Persistence and degradability

Oxygen (19.5 - 23.5%,) Pentane (0.1 - 0.75%,) Hydrogen Sulfide (0.001-0.025%) in balance Nitrogen		
Persistence and degradability	No data available.	
Oxygen (7782-44-7)		
Persistence and degradability	No ecological damage caused by this product.	
Hydrogen sulfide (7783-06-4)		
Persistence and degradability	Not applicable for inorganic gases.	
Nitrogen (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	

# 12.3. Bioaccumulative potential

Oxygen (19.5 - 23.5%,) Pentane (0.1 - 0.75%,) Hydrogen Sulfide (0.001-0.025%) in balance Nitrogen		
Log Pow	Not applicable for gas-mixtures.	
Log Kow	Not applicable for gas-mixtures.	
Bioaccumulative potential	No data available.	
Oxygen (7782-44-7)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	
n-Pentane (109-66-0)		
Log Pow	3.39	
Hydrogen sulfide (7783-06-4)		
BCF fish 1	(no bioaccumulation expected)	
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No data available.	
Nitrogen (7727-37-9)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	

03/24/2015 EN (English US) SDS ID: 50257 6/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.4. M	obility	/ in soil
---------	---------	-----------

Oxygen (19.5 - 23.5%,) Pentane (0.1 - 0.75%,) Hydrogen Sulfide (0.001-0.025%) in balance Nitrogen		
Mobility in soil	No data available.	
Oxygen (7782-44-7)		
Ecology - soil	No ecological damage caused by this product.	
Hydrogen sulfide (7783-06-4)		
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	
Nitrogen (7727-37-9)		
Ecology - soil	No ecological damage caused by this product.	

#### 12.5. Other adverse effects

Effect on ozone layer : None.

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Do not discharge into any place where its

accumulation could be dangerous. Ensure that the emission levels from local regulations or

operating permits are not exceeded.

Waste disposal recommendations : Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more

guidance on suitable disposal methods.

# **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s. (Oxygen, Nitrogen)

UN-No.(DOT) : UN1956

Proper Shipping Name (DOT) : Compressed gas, n.o.s. Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Symbols : G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx) : 306;307
DOT Packaging Non Bulk (49 CFR 173.xxx) : 302;305
DOT Packaging Bulk (49 CFR 173.xxx) : 314;315
DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

# **Additional information**

Other information : No supplementary information available.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's

compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:

- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

ADR

Transport document description : UN 1956 COMPRESSED GAS, N.O.S., 2.2

03/24/2015 EN (English US) SDS ID: 50257 7/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Class (ADR) : 2 - Gases

Hazard labels (ADR) : 2.2 - Non-flammable compressed gas



### Transport by sea

UN-No. (IMDG) : 1956

Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.

Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

Air transport

UN-No.(IATA) : 1956

Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.

Class (IATA) : 2

# SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Oxygen (7782-44-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
n-Pentane (109-66-0)		
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
Hydrogen sulfide (7783-06-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ)	500	
SARA Section 313 - Emission Reporting	1.0 %	
Nitrogen (7727-37-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

# 15.2. International regulations

# CANADA

Oxygen (7782-44-7)	
Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material
n-Pentane (109-66-0)	
Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification	Class B Division 2 - Flammable Liquid
Hydrogen sulfide (7783-06-4)	
Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Nitrogen (7727-37-9)	
Listed on the Canadian DSL (Domestic Sustance	s List)
WHMIS Classification	Class A - Compressed Gas

# **EU-Regulations**

03/24/2015 EN (English US) SDS ID: 50257 8/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Oxygen (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

# n-Pentane (109-66-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Hydrogen sulfide (7783-06-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Nitrogen (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

# 15.2.2. National regulations

### Oxygen (7782-44-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### n-Pentane (109-66-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

# Hydrogen sulfide (7783-06-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

# Nitrogen (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

# 15.3. US State regulations

# Oxygen (7782-44-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# n-Pentane (109-66-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# Hydrogen sulfide (7783-06-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

03/24/2015 EN (English US) SDS ID: 50257 9/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Nitrogen (7727-37-9)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

Indication of changes : Revised safety data sheet in accordance with OSHA final rule on GHS implementation

promulgated March 26, 2012.

Revision date : 08/15/2014

Other information : This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29

CFR, 1910.1200. Other government regulations must be reviewed for applicability to this

product.

# Full text of H-phrases:

Aquatic Acute 1 Aquatic Chronic 2	Acute toxicity (inhalation:gas) Category 2  Hazardous to the aquatic environment - Acute Hazard Category 1  Hazardous to the aquatic environment - Chronic Hazard Category 2
Aguatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
	Assiration beyond Catagoni 4
Asp. Tox. 1	Aspiration hazard Category 1
Compressed gas	Gases under pressure Compressed gas
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 2	Flammable liquids Category 2
Liquefied gas	Gases under pressure Liquefied gas
Ox. Gas 1	Oxidizing gases Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H225	Highly flammable liquid and vapor
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H330	Fatal if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

# SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of Calgaz's knowledge, the information contained herein is reliable and accurate as of this date; however, accruacy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

03/24/2015 EN (English US) SDS ID: 50257 10/10