

**Warning**



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

#### 1.1. Product identifier

Trade name : 100ppm isobutylene / air  
SDS no : 20DAISOBTUYA-0100MB

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.

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

Company identification : Gasco  
320 Scarlet Blvd, Oldsmar, Florida  
34677, United States of America  
www.gascogas.com

#### 1.4. Emergency telephone number

Emergency telephone number : 1-703-527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazard pictograms (CLP) :



GHS04

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

- Storage : P410+P403 - Protect from sunlight. Store in a well-ventilated place.

##### Labelling according to Directive 67/548/EEC or 1999/45/EC

No labelling applicable

#### 2.3. Other hazards

: No additional information available

### SECTION 3: Composition/information on ingredients

**3.1. Substances** : Not applicable

**3.2. Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (EC Index-No.) (REACH-no) *1	79.09	Press. Gas (Comp.), H280
Oxygen	(CAS-No.) 7782-44-7 (EC-No.) 231-956-9 (EC Index-No.) 008-001-00-8 (REACH-no) *1	20.9	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Isobutene	(CAS-No.) 115-11-7 (EC-No.) 204-066-3 (EC Index-No.) 601-012-00-4 (REACH-no) 01-2119456616-32	0.01	Flam. Gas 1, H220 Press. Gas (Liq.), H280

Full text of R- and H-statements: see section 16

*Contains no other components or impurities which will influence the classification of the product.*

\*1: Listed in Annex IV / V REACH, exempted from registration.

\*2: Registration deadline not expired.

\*3: Registration not required: Substance manufactured or imported < 1t/y.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- Inhalation : Assure fresh air breathing.  
Allow the victim to rest.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Eye contact : Rinse immediately with plenty of water.  
Obtain medical attention if pain, blinking or redness persists.
- Ingestion : Rinse mouth.  
Do NOT induce vomiting.  
Obtain emergency medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

No additional information available

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**



- Suitable extinguishing media : Foam.  
Dry powder.  
Carbon dioxide.  
Water spray.  
Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighters**

No additional information available

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

No additional information available

**6.2. Environmental precautions**

- : Prevent entry to sewers and public waters.  
Notify authorities if liquid enters sewers or public waters.

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

No additional information available

**6.4. Reference to other sections**

- : See Heading 8.  
Exposure controls and personal protection.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No additional information available

**7.2. Conditions for safe storage, including any incompatibilities**

No additional information available

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

<b>Isobutene (115-11-7)</b>	
DNEL: Derived no effect level (Workers)	
Long-term - local effects, inhalation	1530 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	769 mg/m <sup>3</sup>

**8.2. Exposure controls**

**8.2.1. Appropriate engineering controls**

: No additional information available

**8.2.2. Individual protection measures, e.g. personal protective equipment**

: No additional information available

• Eye/face protection : Chemical goggles or safety glasses.

## • Skin protection

- Hand protection : Wear protective gloves.

- Other : Do not eat, drink or smoke during use.

• Respiratory protection : Wear appropriate mask.

• Thermal hazards : No additional information available

**8.2.3. Environmental exposure controls**

: No additional information available

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

## Appearance

• Physical state at 20°C / 101.3kPa : Gas

• Colour : Colourless

Odour : characteristic

Odour threshold :

Flammability (solid, gas) : Non flammable

Explosive limits :

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

: No additional information available

**10.2. Chemical stability**

: Not established.

**10.3. Possibility of hazardous reactions**

: Not established.

**10.4. Conditions to avoid**: Direct sunlight.  
Extremely high or low temperatures.**10.5. Incompatible materials**: Strong acids.  
Strong bases.**10.6. Hazardous decomposition products**: fume.  
Carbon monoxide.  
Carbon dioxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****12.1. Toxicity**

EC50 48h - Daphnia magna [mg/l] : No data available.  
EC50 72h - Algae [mg/l] : No data available.  
LC50 96 h - Fish [mg/l] : No data available.

**Isobutene (115-11-7)**

EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

**Oxygen (7782-44-7)**

EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

**Nitrogen (7727-37-9)**

EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

**12.2. Persistence and degradability**

Assessment : Not established.

**12.3. Bioaccumulative potential**

Assessment : Not established.

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

Effect on the ozone layer : No additional information available  
Effect on global warming : No known effects from this product.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

List of hazardous waste codes (from Commission Decision 2001/118/EC) : No additional information available

**13.2. Additional information**

: No additional information available

**SECTION 14: Transport information****14.1. UN number**

UN-No. : 1956

**14.2. UN proper shipping name**

Transport by road/rail (ADR/RID) : COMPRESSED GAS, N.O.S. (oxygen, nitrogen)  
Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s. (oxygen, nitrogen)  
Transport by sea (IMDG) : COMPRESSED GAS, N.O.S. (oxygen, nitrogen)

**14.3. Transport hazard class(es)****Labelling**

:



2.2 : Non-flammable, non-toxic gases.

**Transport by road/rail (ADR/RID)**

Class : 2  
Classification code : 1A  
Hazard identification number : 20  
Tunnel Restriction : E - Passage forbidden through tunnels of category E

**Transport by air (ICAO-TI / IATA-DGR)**

Class / Div. (Sub. risk(s)) : 2.2

**Transport by sea (IMDG)**

Class / Div. (Sub. risk(s)) : 2.2  
Emergency Schedule (EmS) - Fire : F-C  
Emergency Schedule (EmS) - Spillage : S-V

**14.4. Packing group**

Transport by road/rail (ADR/RID) : Not applicable  
Transport by air (ICAO-TI / IATA-DGR) : Not applicable  
Transport by sea (IMDG) : Not applicable

**14.5. Environmental hazards**

Transport by road/rail (ADR/RID) : None.  
Transport by air (ICAO-TI / IATA-DGR) : None.  
Transport by sea (IMDG) : None.

**14.6. Special precautions for user****Packing Instruction(s)**

Transport by road/rail (ADR/RID) : P200  
Transport by air (ICAO-TI / IATA-DGR)  
    Passenger and Cargo Aircraft : 200.  
    Cargo Aircraft only : 200.  
Transport by sea (IMDG) : P200

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

: Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations**

No additional information available

**National regulations**

Water hazard class (WGK) :

**15.2. Chemical safety assessment**



: No chemical safety assessment has been carried out.

**SECTION 16: Other information**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Further information : None.

Full text of H- and EUH-statements

Flam. Gas 1	Flammable gases, Category 1
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated

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