



**SAFETY DATA SHEET**  
**in accordance with REACH**  
**regulation 1907/2006/EC**

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Revised edition no : 1 - 00

Date : 27 / 7 / 2016

Supersedes : 0 / 0 / 0

**ALPHAGAZ™ AUTO Air**

**203001\_08**

**SECTION 1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Trade name : ALPHAGAZ™ AUTO Air  
SDS no : 203001\_08

**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.  
Test gas / Calibration gas. Laboratory use. Contact supplier for more uses information.

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

Company identification : AIR LIQUIDE Deutschland GmbH  
Hans-Günther-Sohl-Straße 5  
D-40235 Düsseldorf GERMANY  
Telefon: +49 (0)211 6699-0 - Fax: +49 (0)211 6699-222

E-Mail address (competent person) : Info.SDB@AirLiquide.de

**1.4. Emergency telephone number**

Emergency telephone number : +49 (0)2151 398668  
- Availability : ( 24 / 7 )

**SECTION 2. Hazards identification**

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

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

• Physical hazards : Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

**2.2. Label elements**

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms code : GHS04  
• Signal words : Warning  
• Hazard statements : H280 - Contains gas under pressure; may explode if heated.  
• Precautionary statements  
- Storage : P403 - Store in a well-ventilated place.

**2.3. Other hazards**

Other hazards : None.



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## SECTION 3. Composition/information on ingredients

### 3.1. Substance / 3.2. Mixture

**Mixture.**

Substance name	Content [Vol-%]	CAS No EC No Index No Registration no.	Classification(DSD)	Classification(CLP)
Nitrogen	: 79.2 %	7727-37-9 231-783-9 ----- *1		Press. Gas (H280)
Oxygen	: 20.8 %	7782-44-7 231-956-9 008-001-00-8 * 1		Ox. Gas 1 (H270) Press. Gas (H280)

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

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

- Inhalation : Adverse effects not expected from this product.
- Skin contact : Adverse effects not expected from this product.
- Eye contact : Adverse effects not expected from this product.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

- : No effect on living tissue.  
Refer to section 11.

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

- : None.

## SECTION 5. Fire-fighting measures

### 5.1. Extinguishing media

- Extinguishing media : All known extinguishants can be used.
- Suitable extinguishing media : Water spray or fog.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

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

- Specific hazards : Exposure to fire may cause containers to rupture/explode.  
Supports combustion.
- Hazardous combustion products : None.

### 5.3. Advice for firefighters

- Specific methods : Move containers away from the fire area if this can be done without risk.  
If possible, stop flow of product.  
Use fire control measures appropriate to the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water



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## SECTION 5. Fire-fighting measures (continued)

spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.

Use water spray or fog to knock down fire fumes if possible.

Special protective equipment for fire fighters : None.

## SECTION 6. Accidental release measures

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

: Act in accordance with local emergency plan.  
Stay upwind.  
Try to stop release.

### 6.2. Environmental precautions

: None.

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

: None.

### 6.4. Reference to other sections

Reference to other sections : See also sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Safe use of the product

: Do not breathe gas.  
Avoid release of product into atmosphere.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Do not smoke while handling product.  
Only experienced and properly instructed persons should handle gases under pressure.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.  
The product must be handled in accordance with good industrial hygiene and safety procedures.  
Consider pressure relief device(s) in gas installations.

Safe handling of the gas receptacle

: Secure gas cylinder against overturning.  
Refer to supplier's container handling instructions.  
Do not allow backfeed into the container.  
Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.  
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.  
When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.  
Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.  
If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.  
Close container valve after each use and when empty, even if still connected to equipment.  
Never attempt to repair or modify container valves or safety relief devices.  
Keep container valve outlets clean and free from contaminants particularly oil and water.  
Never attempt to transfer gases from one cylinder/container to another.  
Never use direct flame or electrical heating devices to raise the pressure of a container.  
Damaged valves should be reported immediately to the supplier.

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## SECTION 7. Handling and storage (continued)

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

- : Keep container below 50°C in a well ventilated place.
- Store containers in location free from fire risk and away from sources of heat and ignition.
- Stored containers should be periodically checked for general condition and leakage.
- Observe all regulations and local requirements regarding storage of containers.
- Containers should not be stored in conditions likely to encourage corrosion.
- Containers should be stored in the vertical position and properly secured to prevent toppling.
- Container valve guards or caps should be in place.
- Keep away from combustible materials.

### 7.3. Specific end use(s)

- : None.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

DNEL: Derived no effect level (Workers)

- : No data available.

PNEC: Predicted no effect concentration

- : No data available.

### 8.2. Exposure controls

8.2.1. 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.

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

- : A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.
- The following recommendations should be considered.
- PPE compliant to the recommended EN/ISO standards should be selected.

• Eye/face protection

- : Wear safety glasses with side shields
- Standard EN 166 - Personal eye-protection.

• Skin protection

- Hand protection

- : Wear working gloves when handling gas containers.
- Standard EN 388 - Protective gloves against mechanical risk.

- Other

- : Wear safety shoes while handling containers.
- Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

• Respiratory protection

- : Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.
- Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

• Thermal hazards

- : None necessary.

8.2.3. Environmental exposure controls

- : None necessary.

**ALPHAGAZ™ AUTO Air****203001\_08****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. Colourless.
Odour	: Odourless. Odourless. No odour warning properties.
Odour threshold	: Odour threshold is subjective and inadequate to warn for overexposure.
pH value	: Not applicable for gas-mixtures.
Molar mass [g/mol]	: Not applicable for gases and gas-mixtures.
Melting point [°C]	: Not applicable for gas-mixtures.
Boiling point [°C]	: Not applicable for gas-mixtures.
Flash point [°C]	: Not applicable for gas-mixtures.
Evaporation rate (ether=1)	: Not applicable for gas-mixtures.
Flammability range [vol% in air]	: Not applicable for gas-mixtures.
Vapour pressure [20°C]	: Not applicable.
Relative density, gas (air=1)	: Lighter or similar to air.
Solubility in water [mg/l]	: • Nitrogen : 20 • Oxygen : 39 Not known, but considered to have low solubility. Solubility in water of component(s) of the mixture :
Partition coefficient n-octanol/water [log Pow]	: Not applicable for gas-mixtures.
Viscosity at 20°C [mPa.s]	: Not applicable.
Explosive Properties	: Not applicable.
Oxidising properties	: None.

**9.2. Other information**

Other data : None.

**SECTION 10. Stability and reactivity****10.1. Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

**10.2. Chemical stability**

: Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

: None.

**10.4. Conditions to avoid**

: None.

**10.5. Incompatible materials**: None.  
For additional information on compatibility refer to ISO 11114**10.6. Hazardous decomposition products**

: None.



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## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: No toxicological effects from this product.
Rat inhalation LC50 [ppm/4h]	: No data available.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas-mixtures.

## SECTION 12. Ecological information

### 12.1. Toxicity

Assessment : No ecological damage caused by this product.

### 12.2. Persistence and degradability

Assessment : No data available.

### 12.3. Bioaccumulative potential

Assessment : No data available.

### 12.4. Mobility in soil

Assessment : No data available.

### 12.5. Results of PBT and vPvB assessment

: Not classified as PBT or vPvB.

### 12.6. 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

: May be vented to atmosphere.  
Contact supplier if guidance is required.  
Do not discharge into any place where its accumulation could be dangerous.  
Refer to the code of practice of EIGA (Doc. 30/10 "Disposal of Gases, downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods  
Ensure that the emission levels from local regulations or operating permits are not exceeded.  
List of hazardous waste codes (from Commission Decision 2001/118/EC) : 16 05 05 - gases in pressure containers other than those mentioned in 16 05 04.

### 13.2. Additional information

: None.



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**SECTION 13. Disposal considerations (continued)**

**SECTION 14. Transport information**

**14.1. UN number**

UN number : 1002  
Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

**14.2. UN proper shipping name**

Transport by road/rail (ADR/RID) : AIR, COMPRESSED  
Transport by air (ICAO-TI / IATA-DGR) : AIR, COMPRESSED  
Transport by sea (IMDG) : AIR, COMPRESSED

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

Transport by road/rail (ADR/RID)  
Class : 2  
Classification code : 1 A  
H.I. nr : 20  
Tunnel Restriction : E : Passage forbidden through tunnels of category E.  
Transport by air (ICAO-TI / IATA-DGR)  
Transport by sea (IMDG)  
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) : No

**14.6 Special precautions for user**

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



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## SECTION 14. Transport information (continued)

**Special precautions for user** : - Ensure there is adequate ventilation.  
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 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.  
- Ensure valve protection device (where provided) is correctly fitted.  
Avoid transport on vehicles where the load space is not separated from the driver's compartment.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 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 legislation

Seveso directive 96/82/EC : Not covered.

#### National legislation

: Ensure all national/local regulations are observed.  
: [German regulations]  
BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS 725 "Ortsbewegliche Druckgasbehälter", TRBS 2141, BGR Regel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900.  
- Water hazard class (WGK) : WGK Germany: Not hazardous to waters.

### 15.2. Chemical safety assessment

: A CSA does not need to be carried out for this product.

## SECTION 16. Other information

**Indication of changes** : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010  
**Training advice** : Receptacle under pressure.  
**Further information** : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.  
Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP.  
**List of full text of H-statements in section 3.** : H270 - May cause or intensify fire; oxidizer.  
H280 - Contains gas under pressure; may explode if heated.  
**DISCLAIMER OF LIABILITY** : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.  
Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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