

**ALPHAGAZ PURIFIER CO2-FREE**

**1100-ALD**



Xi : Irritant

**1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Trade name** : ALPHAGAZ PURIFIER CO2-FREE  
**MSDS No** : 1100-ALD  
**Use** : Industrial and professional. Use only by trained employees according to users risk assessment at workplace.  
**Company identification** : AIR LIQUIDE Deutschland GmbH  
Hans-Günther-Sohl-Straße 5  
D-40235 Düsseldorf Deutschland  
Telefon: +49 (0)211 6699-0 - Fax: +49 (0)211 6699-222  
**E-Mail adress SDS- service** : info.SDB@airliquide.de  
**Emergency phone no.** : +49 (0)2151 398668

**2 HAZARDS IDENTIFICATION**

**Hazards identification** : The hazards information refers only to a disposal not intended by the manufacturer of the content.  
Xi : Irritant  
Special hazard informations for person and environment:  
Risk of serious damage to eyes.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substance / Preparation** : Preparation.  
**Components / Impurities** : Breath lime, contains Calcium dihydroxide and sodium hydroxide with ethyl violet as indicator and 14% - 18% water.

Substance name	Content	CAS No	EC No	Index No	Classification
Calcium hydroxide	: 78 - 84 Gew. %	1305-62-0	215-137-3	----	Xi; R41
Sodium hydroxide	: 2 - 4 Gew. %	1310-73-2	215-185-5	011-002-00-6	C; R35
Ethyl violette	: < 0.1 Gew. %	2390-59-2	219-231-5	---	Xn; R22 Xi; R41

The product consists of a cartridge with contents specified above. No contact with contents is possible with intended use.

**4 FIRST AID MEASURES**

**First aid measures**

- Inhalation** : Remove victim to uncontaminated area.  
Keep victim warm and rested.  
Obtain medical assistance.  
If not breathing, give artificial respiration.
- Skin contact** : In skin contact wash away with plenty of water. Contaminated clothes remove immediately. Swab the skin with Polyethylenglykol 400.



# SAFETY DATA SHEET

## in accordance with REACH regulation 1907/2006/EC

Page : 2 / 5

Revised edition no : 2 - 00

Date : 28 / 2 / 2011

Supersedes : 1 / 1 / 2010

### ALPHAGAZ PURIFIER CO2-FREE

### 1100-ALD

#### 4 FIRST AID MEASURES (continued)

- **Eye contact** : In case of eye contact rinse well with plenty of water with open eyes (mini-mum 15 minutes) and seek immediate medical attention. There is risk of corneal opacity.
- **Ingestion** : Drink diluted lemon juice and afterwards plenty of water. Do not induce vomiting ( Danger of perforation). Obtain medical assistance.
- Note to physician** : After Ingestion there is a risk of esophagus and stomach perforation.

#### 5 FIRE-FIGHTING MEASURES

- Extinguishing media**
- **Suitable extinguishing media** : Non flammable. Extinguishing agents with the environment. Fire water, that is probably arrived with the contents of the cartridge in contact can not get into the groundwater or drains.
- **Unsuitable extinguishing media** : Carbon dioxide can react exotherm with the content of the cartridge.
- General information** : A lye can be formed with the deletion with water . Can be set free calcium oxide at high temperatures.

#### 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Dust formation and inhaling of dusting avoid. Dust mask use with FFP2 filter. Keep out of eyes. Carry safety glasses. Skin contact avoid. Ensure adequate air ventilation.
- Environmental precautions** : Do not empty into drains.
- Clean up methods** : For any release remove it mechanical dry and avoid dust formation. Low residue dilute with plenty of water and flush away.

#### 7 HANDLING AND STORAGE

- Storage** : Keep the cartridges hermetically sealed closed . Warehouse temperature-20 °C to + 50 °C.  
[german information]  
VCI concept of clustering of chemicals. Warehouse class 10 - 13 (VCI concept).
- Handling** : See information supplied by the manufacturer.  
Exhaust, if required.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection** : By normal application no preventive protection necessary.
- Personal protection equipment during possible release of contents:**
- **Respiratory protection** : Dust mask with FFP2 filter.
- **Hand protection** : Protective gloves from Viton or Viton/Butyl.
- **Eye protection** : Eye protector, dense closing.
- **Body protection** : Protective clothing
- Occupational Exposure Limits** : Germany:  
[Calciumhydroxide]  
[German regulation] AGW: Currently no rating (TRGS 900, 1 / 2006) was

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### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

transferred to the job list of AGS, UA III.  
[Sodiumhydroxide]  
[German regulation] AGW: Currently no rating (TRGS 900, 1 / 2006) was  
transferred to the job list of AGS, UA III.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Form** : Solid.  
**Colo(u)r** : White.  
**Odo(u)r** : Odourless.  
**pH value** : 12 (1g/l, 20°C)  
**Bulk density [kg/m3]** : 830 +/- 100  
**Solubility in water** : ca. 1 g/l (20°C)  
**Other data** : Decomposition in CaO and H2O off approx. 500°C.

### 10 STABILITY AND REACTIVITY

**Conditions to avoid** : Avoid strong heating up of contents.  
**Materials to avoid** : Avoid contact with acids.  
Reacts violently with acids.  
The formation of high-inflammable hydrogen is possible at the contact with light alloys (e.g. aluminum).  
Do not bring in connection with tri chloro ethylene and chloroform.  
**Hazardous decomposition products** : Calciumoxid can result from decomposition at high temperatures. Amines can be set free by decomposition of the indicator.  
**General information** : Aqueous solutions and suspension with react alkaline.

### 11 TOXICOLOGICAL INFORMATION

**Toxicity information** : Irritation to eyes, skin and respiratory tract.

#### Acute toxicity

**Rat oral LD50 [mg/kg]** : 7340 [Calciumhydroxide]

**Rabbit oral LD50 [mg/kg]** : 500 [Sodiumhydroxide]

#### Primary irritation:

**Skin:** : not irritant  
Species: Rabbit  
Method: OECD 404 (91/325/EWG)

**Eye:** : > 3 corneal clouding after 72 h  
Species: Rabbit  
Method: OECD 405 (91/325/EWG)

**ALPHAGAZ PURIFIER CO2-FREE****1100-ALD****12 ECOLOGICAL INFORMATION**

- General** : Toxic effects related to contents of the cartridges.
- Not to arrive leave in the stretch of water, waste water or in the soil.  
Suspensions with contents react alkaline.  
May cause pH changes in aqueous ecological systems.  
Toxic to aquatic organisms.  
The indicator can cause a weak discoloration within the acid range (pH < 2: yellow, pH > 3: blue)
- WGK class (Germany)** : 1

**13 DISPOSAL CONSIDERATIONS**

- General** : Dispose of cartridges after use considering the local refuse disposal regulations.  
Contact supplier if guidance is required.
- Industrial waste number** : 16 03 03 - Inorganic wastes containing dangerous substances.  
18 01 06 - Chemicals consisting of or containing dangerous substances.

**14 TRANSPORT INFORMATION**

- **UN No. ADR, IMDG, IATA** : ./.
- **Labelling ADR, IMDG, IATA** : ./.

**Land transport**  
**ADR/RID**: **Not subject to the regulations of the ADR/RID!**

: (s. a. subsection 1.1.3.1 b)

- **Proper shipping name** : ./.
- **ADR Class** : ./.
- **ADR/RID Classification code** : ./.

**Remarks** : AL soda lime is not a dangerous good. (AL soda lime is not hygroscopic and contains less than 4% NaOH. Therefore it is not classified under UN-No. 1907.)

**Sea transport****IMO-IMDG**

- **Proper shipping name** : ./.
- **Class** : ./.

**Other information**

- **Emergency Schedule (EmS) - Fire** : ./.
- **Emergency Schedule (EmS) - Spillage** : ./.
- **Instructions - Packing** : ./.

**Remarks** : AL soda lime is not a dangerous good. (AL soda lime is not hygroscopic and contains less than 4% NaOH. Therefore it is not classified under UN-No. 1907.)

**Air transport**

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**14 TRANSPORT INFORMATION (continued)**

**ICAO/IATA**

• Proper shipping name/Description : ./.

• Class : ./.

**Other information**

• Passenger and Cargo Aircraft

- Packing instruction : ./.

• Cargo only

- Packing instruction : ./.

**Remarks** : AL soda lime is not a dangerous good. (AL soda lime is not hygroscopic and contains less than 4% NaOH. Therefore it is not classified under UN-No. 1907.)

**15 REGULATORY INFORMATION**

**EC Classification** : Xi; R41

**EC Labelling**

• **Symbol(s)**



: Xi : Irritant

: *R and S-phrases are during an not intended release of contents only applicable.*

• **R Phrase(s)** : R41 : Risk of serious damage to eyes.

• **S Phrase(s)** : S9 : Keep container in a well-ventilated place.

S23 : Do not breathe the gas.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**National regulations:** : [german regulations]  
Gefahrstoffverordnung (GefStoffV),  
Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

**16 OTHER INFORMATION**

Ensure all national/local regulations are observed.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

**DISCLAIMER OF LIABILITY** : 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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