

## 1. Substance/description of preparation and company

### 1.1 description of preparation

#### **Airduster (134a/152a)**

#### **APLI art.no. 11297, 11298, 11299, 11818, 11819 & 11820**

- 1.2 **supplier** APLI PAPER S.A.  
street / P.O. Box Av. Arraona, 120-124  
nationality / zip / city 08210 Barberá del Vallés( Spain)  
telephone: 0034 937479100  
telefax: 0034 937188113
- 1.3 **responsible department:** QEHS Dpt.
- 1.4 **emergency number** APLI PAPER S.A. 0034 93.747.91.00

## 2. Composition / information on components of preparation

### 2.1 general characterisation

liquid gas under pressure

### 2.2 hazardous components

<b>CAS-No.</b>	<b>description</b>	<b>symbol</b>	<b>weight-%</b>
75-37-6	1,1-Diflourethan	F+	15-30
811-97-2	1,1,1,2-Tetraflourethan		70-85

## 3. Possible dangers

### 3.1 description of dangers: -

### 3.2 special information on danger for people and environment:

danger of bursting when heated. Increased interior pressure in closed containers. Container is under pressure. Do not expose directly at sun and at temperatures over 50 °C ( p.e. with incandescent lamps). Do not open with force and do not burn after use. Do not spray on flames or flaming objects. Keep away from ignition forces - do not smoke. Store out of reach of children.

### 3.3 classification system:

classification corresponds to the current EC lists completed with information from specialised literature and company data.

### 3.4 additional information

contains 15-30 mass % of inflammable components. Risk of ignition under unfavorable conditions, p.e. bad ventilation, spraying on ignition sources, etc.

## 4. First aid measures

### 4.1 general information: -

4.2 **inhaling:** provide fresh air. Consult a doctor in case of discomfort.

### 4.3 skin contact

**attention:** can cause ice anesthesia on the skin

### 4.4 eye contact:

rins open eye under running water for various minutes. Consult a doctor in case of continuing discomfort.

### 4.5 swallowing:

swallowing liquid gas is extremely difficult. Drink water (mixed with activated carbon if available) Consult a doctor immediately.  
stomach irrigation and vomiting can lead to aspiration.

### 4.6 information for the doctor:

swallowing or vomiting can cause penetration of the lung.

**the following symptoms can be observed:** ice anesthesia in case of skin and eye contact.

## 5. firefighting measures

### 5.1 suitable extinguishing agents:

CO<sub>2</sub>, firefighting powder or spray-jetted water. Fight larger fires with spray-jetted water or alcohol resistant foam.

### 5.2 extinguishing agents not suitable for safety reasons:

### 5.3 special dangers caused by the material or the preparation, its combustion product or developing gases:

hydrogenic fluor can develop in a fire.

### 5.4 special protection equipment for firefighting

wear breathing apparatus because of increased evolution of vapors and gases.

Do not inhale burning gases and explosive gases.

### 5.5 additional information

danger of bursting because of overheating

cool endangered containers with spray-jetted water.

## 6. Measures for accidental evolution

### 6.1 personal safety measures:

provide for sufficient ventilation.

keep away ignition sources.

### 6.2 environmental protection measures:

no special measures

### 6.3 cleaning methods:

let the gases evaporate.

keep away ignition sources.

### 6.4 additional information: for information on safe handling see chapter 7.

## 7. Storage and handling

### 7.1 handling

#### 7.1.1 information concerning safe handling:

protect from heat and direct sun exposure.

#### 7.1.2. information concerning protection from fire and explosion:

Keep away ignition sources. Do not smoke.

Protect from heat.

Do not spray on flames or flaming objects. Container is under pressure. Do not expose directly at sun and at temperatures over 50 °C. Do not open with force and do not burn after use.

### 7.2 storage

#### 7.2.1 requirements for storage rooms and containers:

comply to the authority regulations on the storage of pressure gas packaging.

#### 7.2.2 information for materials stored together: not necessary

#### 7.2.3 special storage conditions:

cool storage. Heating leads to pressure increase and danger of bursting.

#### 7.2.4 storage class (VCI): n.d.a.

## 8. limitations of exposition and personal protection equipment:

### 8.1 additional information for the arrangement of technical plants: see point 7

### 8.2 components with limit values that have to be monitored and that are relevant to the workplace

CAS-Nr.	Techn. name	t	value
811-97-2	1,1,1,2 Tetrafluorethan	MAK 1000	ml/m <sup>3</sup>

- 8.3 **personal protection equipment:**  
the product does not contain relevant amounts of components with limit values that have to be monitored and that are relevant to the workplace.
- 8.3.1 **breathing protection:**  
with good ventilation not necessary.
- 8.3.2 **hand protection:**  
not necessary
- 8.3.3 **eye protection:**  
not necessary
- 8.3.4 **body protection:**  
protective clothing
- 8.3.5 **general protection and hygiene measures:**  
take the usual measures for the use of chemicals.

## 9. Physical and chemical properties

- 9.1 **appearance/smell:**  
state: compressed liquid gas  
color: colorless  
odor: mild
- 9.2 **data relevant for safety**
- change of state**  
boiling point/boiling area (in °C): n.a. because of pressure gas packaging  
melting point/melting area (in °C): n.a. because of pressure gas packaging
- inflammability**  
the preparation contains highly inflammable components which can cause a risk of ignition under unfavorable conditions
- flaming point (°C): n.a. because of pressure gas packaging  
ignition temperatur: n.d.a.  
spontaneous inflammability (EC A16) the product does not show spontaneous inflammability
- fire-fostering properties**  
danger of explosion: the development of explosive / easily inflammable vapor-gas mixtures is possible.
- density 20°C (g/ml): 1,1 - 1,2
- solubility**  
water solubility: not soluble

## 10. Stability and reactivity

- 10.1 **conditions to be avoided**  
no decomposition if used as agreed.
- 10.2 **material to be avoided**  
with temperatures over 50 °C: danger of bursting because of increase of interior pressure.  
can develop hazardous combustion products when burnt, when sprayed into flames and on glowing objects.
- 10.3 **dangerous reaction products:** hydrogen fluoride
- 10.4 **additional information:** n.av.

## 11. Information concerning toxicology

- 11.1 **toxicologic tests**  
**accute toxicity**  
**primary irritative effects:**  
in the eye: can cause irritative effects.
- 11.2 **additional information:** according to the information available to us, the product does not cause health damages if it is used properly and as agreed

**12. Information on ecology****1. information about elimination (persistence and decomposability)**

additional information: difficult biological decomposition of the product.

**2. behavior in environmental compartments: -****3. ecotoxic effects: -****4. additional ecologic information: -****general information**

hazard category for water: WGK 1

**13. Information on disposal**13.1 **product:**

-

13.2 **recommendation:**

should not be disposed off together with domestic refuse.

13.3 **for uncleaned packaging:**

comply with regulations of local authorities for disposal.

**14. Transport regulations**14.1 **road- / rail transport (GGVS/ADR / GGVE/RID)**

UN-No.: 1950

class: 2

number / letter: 5 F

description of good: Aerosol

limited quantity (3.4 ADR): LQ2

Cartons up to 30 kg. Markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm.

14.2 **sea (GGVSee / IMDG)**

class: 2

UN-No.: 1950

EMS-Nr. : F-D, S-U

Limited quantities: chapter 3.4 IMDG-Code

Cartons up to 30 kg. Markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm.

14.3 **Air transport IATA / ICAO:**

class: 2.1

UN-Number: 1950

Description of good: Aerosols

**15. Regulations****labeling regulation on hazardous material including EC regulations (67/548/EEC as well as 88/379/EEC)**S-sentences: 2 keep out of the reach of children  
51 use only in adequately ventilated rooms**special labeling of special preparations:**

name, address, telephone of producer or seller.

Contains 15-30 mass % of inflammable components.

container is under pressure. Do not expose directly at sun and at temperatures over 50 °C ( p.e. with incandescent lamps). Do not open with force and do not burn after use. Do not spray on flames or flaming objects. Keep away from ignition sources - do not smoke. Store out of the reach of children.

**Recommended labeling:**

Do not shake. Keep upright. Liquid gas can cause severe burns (frostbite) on contact with skin and damage materials. Store upright. Before use spray shortly once into the room. Use only in accordance with intended purpose.

**national regulations**

VbF: TRG 300  
hazard category for water: WGK 1 (self classification)

---

**16. additional information**

Relevant R-phrase under point 2:  
R 12 Extremely flammable

the information is based on the current knowledge. It does not represent a guarantee of product characteristics and do not cause contractual facts of the case.

department issuing data sheet: Dep. Chemicals  
data sheet labeling: aird1997

**Legend:**

n.a. = not applicable / n.av. = not available / n.t. = not tested / n.d.a. = no data available  
VbF = regulation on inflammable liquids  
MAK = maximum concentration at workplace in mg/m<sup>3</sup> = ppm  
BAT = biological tolerance at workplace  
TRbF = technical rules inflammable liquids  
WGK = **hazard category for water**  
WGK3 = heavily endangering water  
WGK1 = slightly endangering water  
WGK2 = endangering water

The data listed here is supposed to describe the product with respect to the necessary safety precautions. They do not aim at establishing certain properties, and they are based on the current level of our knowledge. No liability.