

**LABO CHIMIE FRANCE SARL**

La Cadenière – Ch. de la Sarrière  
13590 MEYREUIL

**SAFETY DATA SHEET**

This note of safety provides information of safety relating to the aerosol spray device "EcoSpray" (generator of aerosol) ref. A520 or A522/524B provided with pressure container 524B.

**1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY:**

|                                    |  |
|------------------------------------|--|
| CODE PRODUCE                       | <b>A520 (524B) or A520/labo or A522/524B</b>                           |
| TYPE PRODUCT                       | <b>AEROSOL SPRAY DEVICE</b>  |
| NAME OF PRODUCT                    | <b>ECOSPRAY®</b>   |
| IDENTIFICATION OF THE COMPANY      | L.C.F. SARL  |
| ADDRESS                            | La Cadenière - Chemin de la Sarrière                                   |
| TELEPHONE NUMBER OF EMERGENCY CALL | +33 (0)4 42 27 93 98   |
| NUMBER OF FAX                      | +33 (0)4 42 26 80 54   |
| PACKING                            | CARTON OF 6 INDIVIDUAL BOXES (KITS)<br>EXPORT CARTON OF 48 UNITS (8X6) |

**2 - INFORMATION COMPOSITION ON THE COMPONENTS:**

|                             |   |
|-----------------------------|---|
| NATURE COMPONENTS           | AEROSOL SPRAY DEVICE (COMPLETE KIT)<br>ABS HEAD SPRAYER ADAPTABLE WITH<br>-EMPTY BOTTLE 125CC IN PETG WITH CAP<br>-REFILL PRESSURE CONTAINER (REF.524B) |
| CHEMICAL NAME OF PROPELLANT | 1,1,1,2-TETRAFLUOROETHANE (CH <sub>2</sub> F-CF <sub>3</sub> )  |
| CAS                         | 811-97-2  |
| TANK TYPE/RESISTANCE        | cast solid aluminium - resistance 18bars  |
| QUANTITY - WEIGHT NET       | 130g (5.0 OZ)   |
| PRESSURE 20°C               | 4.5 kg/cm <sup>2</sup>  |

**3 - IDENTIFICATION OF THE DANGERS**

|                               |                               |
|-------------------------------|-------------------------------|
| EFFECT ON HEALTH              | NON HARMFUL                   |
| EFFECT PHYSIQUES AND CHEMICAL | NON FLAMMABLE - NOT EXPLOSIVE |

**4 - MEASUREMENTS OF FIRST AID:**

|                              |  |
|------------------------------|--|
| Contact by <u>Inhalation</u> | No the contrary effect - to bring the victim to the free air |
| Contact with <u>Skin</u>     | Can cause a light frostbitten of the skin                    |
| Contact with <u>Eyes</u>     | Washing with water   |

**5 - MEASURE OF FIRE CONTROL/ ENVIRONMENTAL DATA:**

|             |   |
|-------------|---|
|             | To prohibit any source of sparks and ignition.  |
|             | Not to smoke.   |
|             | To cool the tanks by steeping in water.   |
| POCP = 0    | No harmful decomposition at low altitude for the environment.   |
| HGWP = 0,26 | No restriction of use concerning the effect of greenhouse   |
| ODP = 0     | No effect on the layer of ozone. Non concerned by the Protocol of Montreal and them revised of London and Copenhagen. |

**6 - MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL DISPERSION:**

In closed room: to ventilate  
To move away any source from sparks and ignition. Not to smoke.

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### **7 STORAGE AND HANDLING:**

Instructions of storage and handling applicable to the products: gas under pressure  
 To preserve in a fresh and broken down place.  
 To protect packing so avoiding overpressures.  
 To prohibit the points of ignition and the contact with hot surfaces. Not to smoke.

### **8 - CONTROL EXPOSURE/INDIVIDUAL PROTECTION:**

Values limit exposure: no limiting value the USA

### **9 - PHYSICAL PROPERTIES AND CHEMICAL of propellant gas 134a:**

|                               |           |                             |
|-------------------------------|-----------|-----------------------------|
| Physical state                | with 20°C | : gas                       |
| Colour                        |           | : colourless                |
| Odour                         |           | : odourless                 |
| pH                            |           | : non applicable            |
| Boiling point                 |           | : (-) 26,4°C                |
| Melting point                 |           | : (-) 101°C                 |
| Flash point                   |           | : does not have point flash |
| Coil flammability Temperature |           | : 743°C                     |
| Steam pressure                | 25°C      | : 0,665 MPa (6,65 bars)     |
|                               | 50°C      | : 1,320 MPa (13,2 bars)     |
|                               | 70°C      | : 2,120 MPa (21,2 bars)     |

#### Other data:

Not dissociated in water  
 Critical temperature : T<sub>c</sub> = 101°C  
 Critical pressure : PC = 4,07 MPa (40,7 bars)

### **10 - STABILITY AND REACTIVITY:**

Stable product at ambient temperature

### **11 - TOXICOLOGICAL INFORMATION:**

|                       |   |
|-----------------------|---|
| Contact by Inhalation | : non harmful   |
| Contact with the Skin | : little or not irritant - not sensitizing  |
| Contact with the Eyes | : little or not irritant  |
| Chronic toxicity      | : studies by inhalation prolonged in the animal did not highlight of chronic toxic effect (rat/2y/50000 ppm). |
| Genome toxicity       | : non genome toxic according to the experimental data available.  |
| Carcinogenesis        | : the animal experimentation did not highlight carcinogenic effects.  |
| Foetal development    | : absence of effect toxic for the development of the foetus.  |
| Fertility             | : toxic absence of effect on the fertility  |

### **12 - ECOLOGICAL INFORMATION:**

Evaporation : t<sub>1/2</sub> life = 3h (estimated)  
 Potential of destruction of ozone: PDO = 0

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### **13 - INFORMATION RELATING TO ELIMINATION:**

Elimination of the product : to recycle or incinerate

### **14 - INFORMATION RELATING TO TRANSPORT:**

**ADR (road)** : Classification of aerosols non flammable  
 Exemption Limited Quantities - no obligation for parcel lower than 30kg GW

UN/ID : 1950  
 Label : AEROSOL NON FLAMMABLE  
 Class : 2

**IMGD (sea)**

UN/ID : 1950  
 Labels : NON FLAMMABLE GAS /2  
 Class : 2.2

**IATA (air)**

UN/ID : 1950  
 Labels : AEROSOLS NON FLAMMABLE GAS /2 + mark of admissibility  
 Class : 2.2

### **15 - LAWFUL INFORMATION:**

Dangerous not classified substance  
 N° CEE (EINECS): 212-377-0

### **16 - OTHER INFORMATION:**

No guarantee can be given on the exactitude of the information contained in this card. This one, offered in good faith to our customers with an only aim of informing it and of helping it in its research and checks, will not be able to involve any formal or implicit guarantee as for its use. Consequently, Labo Chimie France sarl liability company could not be held for person in charge for the damage, of some nature which they are, relating to the publication of this document. In the same way, none information which it contains must be interpreted like an authorization or a recommendation of use of products which violate rights protected from patent rights.