

Productname : GIVRANT  
Ref.Nr.: BDS000766\_3\_20111109  
Creationdate : 09.11.11 Version : 1.0  
Replaces: AB38480

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

GIVRANT  
Aerosol

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

Cooling agent

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

CRC Industries Europe bvba  
Touwslagerstraat 1  
9240 Zele  
Belgium  
Tel.: +32(0)52/45.60.11  
Fax.: +32(0)52/45.00.34  
E-mail : hse@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Asemanrinne 13, 08500 Lohja	+358/(19)32.921	+358/(19)383.676
CRC Industries France	6, avenue du marais, B.P. 90028, 95102 Argenteuil Cedex	01.34.11.20.00	01.34.11.09.96
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303.0	(07229)30 32 66
CRC INDUSTRIES IBERIA S.L.U.	GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTRI. DE HONTORIA, 40195 SEGOVIA	0034/921.427.546	0034/921.436.270
CRC Industries Sweden	Kryptongatan 14, 431 53 Mölndal	0046/31 706 84 80	0046/31 27 39 91

**1.4. Emergency telephone number**

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC:**

Health: not classified  
Physical: not classified  
Environment: not classified



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## 2.2. Label elements

**Safety-phrase(s) :** S2: Keep out of the reach of children.  
 S23: Do not breathe vapours/spray.  
 S51: Use only in well-ventilated areas.

**Special labelling provisions:** Safety data sheet available on request.

**Extra label elements according to Aerosol Dispenser Directive 75/324/EC:** Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

## 2.3. Other hazards

In case of contact with liquid product frostbite symptoms may occur.  
 Aerosols may explode if heated above 50°C

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Hazardous ingredient	CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
tetrafluoroethane	811-97-2	212-377-0	75-100	-	-	B
dimethyl ether	115-10-6	204-065-8	1-5	F+	12	A

#### Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
dimethyl ether		115-10-6	204-065-8	1-5	Flam. Gas 1, Press. Gas	H220	A

#### Explanation notes

A : substance with Community workplace exposure limit

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Contact with eyes :** Seek immediate medical attention

**Contact with skin :** In case of contact with liquid, thaw frosted parts with water, remove clothing carefully and wash with soap & water  
 Seek medical advice

**Inhalation :** Fresh air, keep warm and at rest.

**Ingestion :** Ingestion is unlikely to occur



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

**Inhalation :** Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness  
**Ingestion :** Ingestion is unlikely to occur  
**Skin contact :** In case of contact with liquid product frostbite symptoms may occur.  
**Eye contact :** In case of contact with liquid product frostbite symptoms may occur.

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

**General Advice :** In case of accident or if you feel unwell, seek medical advice (show the label where possible)  
If symptoms persist always call a doctor

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

water, foam, carbon dioxide or dry agent

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

Aerosols may explode if heated above 50°C  
Forms hazardous decomposition products  
CO,CO2  
HF may be formed under condition of fire

**5.3. Advice for firefighters**

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes

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

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing and gloves.

**6.2. Environmental precautions**

Do not allow to enter public sewers and watercourses

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

Allow product to evaporate



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#### 6.4. Reference to other sections

For further information see section 8

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition  
 Do not spray on a naked flame or incandescent material.  
 Do not pierce or burn aerosols, even after use.  
 Do not breathe aerosols or vapours.  
 Ensure adequate ventilation  
 Avoid contact with skin and eyes.

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

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Store in a well-ventilated place.  
 Keep out of reach of children.

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

Cooling agent

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
dimethyl ether	115-10-6	TWA	1000 ppm
<b>National established exposure limits, United Kingdom</b>			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
tetrafluoroethane	811-97-2	TWA	1000 ppm

#### 8.2. Exposure controls

**Control procedures :** Ensure adequate ventilation  
 Keep away from heat and sources of ignition  
**Personal protection :** Take precautions to avoid contact with skin and eyes when handling the product.



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Ensure adequate ventilation  
**inhalation :** In case of insufficient ventilation, wear suitable respiratory equipment.  
**hands and skin :** Wear suitable protective gloves  
**eyes :** Wear safety goggles.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Apperance : physical state :** Liquified gas.  
**colour :** Colorless.  
**odour :** Odorless.  
**pH :** Not applicable.  
**Boiling point/range :** Not available.  
**Flash point :** None  
**Evaporation rate :** Not available.  
**Explosion limits : upper limit :** Not available.  
**lower limit :** Not available.  
**Vapour pressure :** Not available.  
**Relative density :** 1.165 g/cm<sup>3</sup> (@ 20°C).  
**Solubility in water :** Partly soluble in water  
**Auto-ignition :** > 200 °C  
**Viscosity :** Not available.

### 9.2. Other information

**VOC:** 1165 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

### 10.2. Chemical stability

Stable

### 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

### 10.4. Conditions to avoid

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.  
Avoid overheating

### 10.5. Incompatible materials



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Strong oxidising agent

#### 10.6. Hazardous decomposition products

CO,CO2  
HF may be formed under condition of fire

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Inhalation :** Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness  
**Ingestion :** Ingestion is unlikely to occur  
**Skin contact :** In case of contact with liquid product frostbite symptoms may occur.  
**Eye contact :** In case of contact with liquid product frostbite symptoms may occur.

#### Toxicological data :

No information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

not classified

#### Ecotoxicological data:

No information available

#### 12.2. Persistence and degradability

No experimental data available

#### 12.3. Bioaccumulative potential

No experimental data available

#### 12.4. Mobility in soil

Insoluble in water

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



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No information available

#### 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Product :** This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

### SECTION 14: Transport information

#### 14.1. UN number

UN-number : 1950

#### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS, non flammable

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

Class: 2.2  
ADR/RID - Classification code: 5A

#### 14.4. Packing group

Packing group: Not applicable.

#### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally hazardous: No

#### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (E)  
IMDG - Ems: F-D,S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code



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Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Safety Data Sheet is compiled according to the current European requirements.  
Dir. 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.  
Regulation (EC) No 1907/2006 (REACH)

### 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

\*Explanation risk-phrases: R12: Extremely flammable.

\*Explanation hazard statements: H220 : Extremely flammable gas.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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