

Trade name	: Occlusion spray non-flammable	date:	05.02.98
Product number	: 11140-1, 11145-1, 11146-1, 11147-1 and 11149-1	revised on:	31.03.2011
Manufacturer/shipper:	DFS-DIAMON GmbH		

1 chemical product and company information

1.1 Trade names

Occlusion spray, non-flammable, green, red, blue, white and gold



non-combustible, non-toxic gas

CAUTION



1.2 Details of manufacturer/shipper

DFS-DIAMON GmbH
Ländenstraße 1
93339 Riedenburg

Tel. 09442/9189-41 Fax 09442/9189-37

2 composition/information on ingredients

chemical characteristics

agent preparation

CAS – number	name	% - content	R- phrase
811-97-2	1,1,1,2 Tetra fluoric ethane (R 134a)	92 - 95	--
13463-67-7	titanium dioxide	0,5 - 1	
16521-38-3	Aluminium hydroxide	1 - 2	
64-17-5	Ethanol 99%	0,5 - 1	
109-66-0	N-Pentane	0,5 - 1	

3 hazards identification

hazard symbol: non-combustible

4 first aid measures

after inhalation:

Remove the injured into fresh air and keep him calm. in case of apnoea induce breathing with a respiratory device. Consult physician.

after skin contact:

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In general no skin irritation. Wash the skin with soap and water after contact.

after swallowing:

In the unlikely case of swallowing arrange immediately for medical treatment

after eye contact:

Irrigate eyes immediately for several minutes with plenty of water and consult physician if symptoms persist

5 fire fighting measures

suitable extinguishing agents:

The product itself is non-combustible; fire extinguishing method of surrounding areas must be discussed. Cool containers down by spraying with water.

for safety reasons, unsuitable extinguishing agents

None

special equipment for fire fighting

Wear self-contained-breathing-apparatus

6 accidental spill release measures

personal precautions:

Wear protective equipment. Keep unprotected persons at distance. If dust forms, use respiratory protection.

environmental protection measures:

Do not discharge into the sewage system, surface water, groundwater

methods for cleaning up:

Sweep up spilt product with wax impregnated sawdust. Avoiding dusting. Clean floor and soiled objects with water and cleansing agent. The absorbed material must be disposed of in accordance with local, state and federal regulations.

7 handling and storage

7.1 handling

instructions for safety handling

No special measures are required if used properly.

7.2 storage

requirements for storage rooms and containers:

Keep containers tightly sealed. Do not store close to food.

8 exposure controls and personal protection

8.1 exposure control parameters

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CAS – number	name	value	unit
811-97-2	1,1,1,2 Tetra fluoric ethane	4.200	mg/ m ³

8.2 personal protection equipment
general protection and hygienic measures:
 Keep away from food and beverage. Wash the skin thoroughly after work and before breaks.

respiratory protection:
 none

hand protection:
 Leather gloves

eye protection:
 Protection goggles

Body protection:
 None

9 physical and chemical characteristics

material state: spray	colour: green, red, golden, blue and white	odour: perceptible
Pressure	2,3	bar
	value	unit
flash point	none	°C
ignition temperature	none	°C
density (at 20 °C)	1,226	g/cm ³
lower explosion limit	none	Vol %

10 stability and reactivity

Hazardous decomposition products:
 No decomposition will occur in case of appropriate usage and storage

11 toxicological information

No sensitizing, no skin and eye irritation

12 ecological information

General instructions
 None

13 disposal considerations

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Recommendation:

Must be disposed of by an authorised waste/disposal company in accordance with local state and federal regulations. Contaminated packing must be emptied completely.

Waste key code:**14 transport regulations**

Transport only according to the transport instructions for street (ADR), rail (RID), ocean (IMDG and air (ICAO/IATA)

Country transport ADR/RID and GGVS/GGVE (border crossing / inland)

ADR / RID – GGVS / E – classification code: 2A UN – Nr. 1950

Name of the good: occlusion-spray

14.1 ocean transport IMDG / GGV – sea
IMDG / GGV sea – classification code 2A UN – Nr. 1950

14.2 air transport ICAO TI and IATA – DGR classification code 2A UN – Nr. 1950

further declarations

15 regulatory instruction

Labelling not compulsory

water hazard class:

WHC 1 (self classification)

16 other details

16.1 further information: The details are based on our current state of knowledge, however, they do not constitute any assurance of product characteristics and cannot be the basis of any legal contractual relations.