

# EC Safety Data Sheet 91/155/EWG



## 1. Commercial produkt name and supplier

<u>Commercial product name:</u>	Endo Cold Spray 9003001, 9003002
<u>Producer:</u>	DE Healthcare Products Gillingham ME8 0SB UK
<u>Informations:</u>	++44(0)1634 878 750
<u>TOX emergency number:</u>	001 703 257 3887

## 2. Composition

Chemical characterisation: Mixture of hydrocarbons (propane, butane and isobutane)

Hazardous components:

	<u>CAS-No.</u>	<u>EINECS-No.</u>	<u>EG-Ind.-No.</u>	<u>Label</u>	<u>R-Phrases</u>	<u>%</u>
n-Butane/ iso-Butane	106-97-8	203-448-7	601-004-00-0	F+ 	12	10-40
Propane	74-98-6	200-827-9	601-003-00-5	F+ 	12	60-90

## 3. Hazard identification



R12 Extremely flammable

Specific hazards:

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 incandescent materi

## 4. First aid measures

Ey contact:

Flush eyes with plenty of water (10-15min). Call a physician.

Skin contact:

Flush with plenty of water immediatelly, may cause frostbite type of injuries. Consult a physician.

Ingestion:

After Ingestion call a physician immediatelly and show packaging or label.

Inhalation:

Take into fresh air. If you feel unwell, seek medical advise (show this data sheet).

Further information:

none

# EC Safety Data Sheet 91/155/EWG

## 5. Fire-fighting measures

### Suitable extinguishing media:

Foam, powder, carbon dioxide, water fog

### Extinguishing media to avoid:

Do not use direct water stream

### Further information:

Cool containers in the vicinity of the blaze using a water spray. Risk of explosion if heated under confinement. Violent eruption of containers may occur under fire conditions.

## 6. Accidental release measures

Keep away from sources of ignition. No smoking. Do not allow to flow off into the drains. Explosion hazards! Dispose of according to local and national regulation.

## 7. Handling and storage

### Handling:

Only adequately trained personnel should handle this product. Keep out of reach of children.

### Industrial hygiene:

Usual hygienic measures are necessary. When using, do not drink, eat or smoke.

### Storage:

Do not expose to direct sunshine. Store in cool, dry well ventilated area away from sources of ignition and heat.

### Place of storage:

Store in a cool, dry place.

## 8. Exposure controls / personal protection

### Technical equipment:

Provide adequate local ventilation. Control airborne concentration below the exposure guideline.

### Control of threshold limits:

<u>CAS-Nr.</u>	<u>Chem. Charact.</u>	<u>Limits</u>	<u>unit</u>	
74-98-6	Propane	MAK	1000 ppm	2350 mg/m <sup>3</sup>

### Respiratory protection:

-

### Hand protection:

-

### Eye protection:

Safety goggles.

### Other:

Eye wash fountain should be located in work area.

# EC Safety Data Sheet 91/155/EWG

## 9. Physical and chemical properties

<u>Appearance:</u>	liquified gas
<u>Colour:</u>	colourless
<u>Odour:</u>	peppermint
<u>Change in physical state:</u>	
<u>Boiling point:</u>	-0,5°C (Butane)
<u>Ignition temperature:</u>	>240°C (Butane)
<u>Flashpoint:</u>	approx. -41°C (Butane)
<u>Explosion limits:</u>	Lower: 1,5 Vol.%                      Upper: 11 Vol.% (Butane)
<u>Vapourpressure:</u>	5,0 bar (20°C); 11,6 bar 50°C
<u>Density:</u>	0,54 g/cm <sup>3</sup> at 20°C
<u>Solubility in water:</u>	< 0.1 g/ml
<u>pH-Value:</u>	not applicable

## 10. Stability and reactivity

<u>Thermal decomposition:</u>
Conditions to avoid see 7.
<u>Hazardous reactions:</u>
None under normal conditions of storage and use.

## 11. Toxicological information

<u>Acute toxicity:</u>
-
<u>Subacute/chronic toxicity:</u>
Signs and symptoms of excessive exposure may be narcotic effects.
<u>Further information:</u>
Excessive exposure may cause eye and respiratory irritation.

## 12. Ecological information

German „Wassergefährdungsklasse“ WGK 0
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## 13. Disposal considerations

<u>Recommendations:</u>
Take to a special waste incineration plant, in line with local Regulations.

# EC Safety Data Sheet 91/155/EWG

## 14. Transport information

### Transport at land (GGVS/GGVE)

GGVS/E Class: 2  
Cipher: 5 F  
UN-No: 1950  
Packing group: -

### Transport at sea (IMDG/GGVSee):

IMDG/GGVSee-Class: 2.1  
UN-No: 1950  
EMS-Nummer: F-D, S-U  
Marine pollutant : No  
Name of substance: Aerosols, flammable

### Air transport (ICAO-TI and IATA-DGR):

ICAO/IATA-Class: 2.1  
UN/ID-No: 1950  
Packing group: -  
Name of substance: Aerosols, flammable

## 15. Regulatory information

This product requires classification according to the criteria of the EC and the „Gefahrstoffverordnung“

### Hazard designation:



F+ Extremely flammable.

### Risk phrases:

R 12 Extremely flammable

### Safety phrases:

S 9 Keep container in a well-ventilated place

S 16 Keep away from sources of ignition – No smoking

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 incandescent material. Keep out of the reach of children.

## 16. Other information

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.