

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.02.2004

Reviewed on 10.02.2004

1 Identification of substance:

- **Product details:**

- **Trade name:** VITA CEREC Propellant

- **Article number:** ECPN

- **Manufacturer/Supplier:**

VITA Zahnfabrik

H. Rauter GmbH & Co. KG

Postfach 1338

D 79704 Bad Säckingen

- **Information in case of emergency:** Tel.: ++49-(0)761-19240

Tel.: ++49/(0)7761/562-0

Fax: ++49/(0)7761/562299

2 Composition/Data on components:

- **Chemical characterization:**

- **CAS No. Description:**

75-28-5 isobutane

- **Identification number(s):**

- **EINECS Number:** 2008572

- **EU Number:** 601-004-00-0

3 Hazard identification

- **Hazard description:**



F+ Extremely flammable

- **Information concerning to particular hazards to man and environment**

May form combustible/ignitable vapour/air mixture.

Ensure adequate ventilation. Keep away from all sources of combustion.

Make sure the aerosol can is completely empty before sending to waste disposal.

R 12 Extremely flammable.

- **Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact** Immediately rinse with water.

- **After eye contact**

Rinse open eye for several minutes with running water. If symptoms persist, consult a doctor.

- **After swallowing** Seek medical treatment.

- **Information for doctor**

- **The following symptoms may occur:**

Dizziness

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.02.2004

Reviewed on 10.02.2004

Nausea

(Contd. of page 1)

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, foam, dry powder
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Flammable. Formation of explosive gases possible even at room temperature. Formation of dangerous gases possible in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Do not heat over 50°C, do not spray into eyes
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Compressed gasses may form explosive mixtures with air.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool place with good ventilation
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Personal protective equipment**
- **General protective and hygienic measures** Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**
Use suitable respiratory protective device when high concentrations are present.
Use ventilation hood
- **Protection of hands:**
- **Material of gloves -**
- **Penetration time of glove material -**

(Contd. on page 3)

GB

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.02.2004

Reviewed on 10.02.2004

(Contd. of page 2)

· **Eye protection:**

Tightly sealed goggles.

9 Physical and chemical properties:

· **General Information**

Form:	Aerosol
Colour:	Colourless
Odour:	Nearly odourless

· **Change in condition**

Melting point/Melting range: undetermined

· **Flash point:** -60°C· **Ignition temperature:** 510°C· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.· **Explosion limits:**

Lower:	1.4 Vol %
Upper:	32.0 Vol %

· **Vapour pressure at 20°C:** 2600 hPa· **Density at 20°C:** 0.58 g/cm³· **Solubility in / Miscibility with**

Water: Insoluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** strong oxidizing agents
- **Dangerous reactions** Danger of explosion
- **Dangerous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Frequent and prolonged skin contact can lead to degreasing and skin irritations.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Inhalation in high concentrations may cause irritation of the respiratory tract as well as headaches and narcotic effects.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.

(Contd. on page 4)

GB

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.02.2004

Reviewed on 10.02.2004

(Contd. of page 3)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 Gases.
- **Danger code (Kemler):** 23
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -

15 Regulations

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:**

F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.

- **Safety phrases:**

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

(Contd. on page 5)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 10.02.2004

Reviewed on 10.02.2004

(Contd. of page 4)

· **Special labelling of certain preparations:**

Labeled as aerosol under § 6(4,5) Ordinance on Hazardous Materials (GefStoffV): Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray into open flame and onto glowing surfaces.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· * **Data compared to the previous version altered.**

GB