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# CASE-CARE™ SAFETY DATA SHEET

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Issued: 02/07/2010 Revision No: 02

8 Pages

According to the Commission Regulation (EU) No 453/2010 Annex II of REACH Regulation

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

### 1.1 Product Identifier

Case-Care

### 1.2 Relevant identified uses of the mixture and of the company

Evaporator, cleaner and disinfectant

### 1.3 Details of the supplier of the safety data sheet

DiversiTech UK Limited  
Glaisdale Drive East, Nottingham, NG8 4LY United Kingdom  
Phone: +44 115 900 5858

### 1.4 Emergency telephone number

Emergency tel:

+1 813 248 0585 24 Hours, 7 Emergency Days, Chem-Tel, Inc.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture

<b>Classification under CHIP:</b>	[F+]; R12; [Xi]; R36/37/38; R67.
<b>Directive 1999/45/EU:</b>	This mixture meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

Physicochemical hazards: Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

Human health: Gas or vapour is harmful on prolonged exposure or in high concentration. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Environment: This product does not contain substances which are harmful to aquatic organisms or which may cause long term effects to the aquatic environment.

Please see Section 16 for full classification.

### 2.2 Label Elements



Extremely Flammable



Irritating

#### Risk Phrases

R12: Extremely flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R67: Vapours may cause drowsiness and dizziness.

#### Safety Phrases

S9: Keep container in a well-ventilated place

S16: Keep away from sources of ignition – No smoking

S23: Do not breathe spray

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33: Take precautionary measures against static discharges.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S43: In case of fire, use foam, carbon dioxide, dry powder or water fog.

S60: This material and its container must be disposed of as hazardous waste.

### 2.3 Other Hazards

<b>Workplace exposure limits:</b>	This product does not have a workplace exposure limit.
<b>PBT:</b>	This substance is not identified as a PBT substance.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS-Nr	EINECS Nr,	% Composition	Classification according to CHIP
1-Methoxy-2-Propanol	107-98-2	203-539-1	10-30	R10; R67.
3-Butoxypropan-2-ol	5131-66-8	225-878-4	5-10	[Xi] R36/38.
Butan	106-97-8	203-448-7	5-10	[F+] R12.
2-Aminoethanol	141-43-5	205-483-3	1	[Xn] R20/21/22; [C] R34
Isobutan	75-28-5	200-857-2	1-5	[F+] R12

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of first aid measures

**Skin contact** – Wash contaminated skin immediately with soap or mild detergent and water. Remove contaminated clothing and wash.

**Eye contact** - Immediately flush eyes with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. If relevant, remove contact lenses. Continue to rinse for at least 15 minutes and get medical attention.

**Ingestion** - Wash out mouth with water. Provide fresh air. Do not induce vomiting. Consult a doctor.

**Inhalation** - In case of inhalation of spray mist: Move person to fresh air and keep at rest. If unconscious, check for breathing and apply artificial respiration if necessary. Keep the affected person warm and at rest. Get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Skin Contact: Prolonged contact may cause drying, chapping cracking, irritation, burning or redness.

Eye Contact: Contact may cause tearing, burning redness and swelling.

### 4.3 Indication of any immediate attention and special treatment needed

If in contact with skin, wash/flush immediately. If inhaled, get medical attention immediately.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

### 5.2 Special hazards arising from the substance or mixture

Extremely flammable. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back. Aerosols cans may explode in fire.

### 5.3 Advice for fire-fighters

Water spray should be used to cool containers. Use water to disperse vapours. Warn fire-fighters that aerosols are involved. Aerosol containers can explode when heated, due to excessive pressure build-up. Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation In the case of inadequate ventilation, use respiratory protection. Avoid inhalation of vapours and aerosol spray.

### 6.2 Environmental precautions

Do not discharge into drains or rivers. Contain spillages with sand, earth or any suitable absorbent material.

### 6.3 Method for cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material. Let evaporate. Keep out of confined spaces because of explosion risk.

### 6.4 Reference to other sections

Please refer to Section 8 for details on protective wear.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray near a naked flame or any incandescent material.

### 7.2 Condition for safe storage, including any incompatibilities

Keep away from sources of ignition. Store in cool, well ventilated area. Keep away from moisture. Keep away from direct sunlight. Pressurised container: do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Must only be kept in original packaging.

### 7.3 Specific end use(s)

No further details

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

1-METHOXY-2-PROPANOL

UK - 8 hour TWA: 375 mg/m<sup>3</sup> (equivalent to 100 ppm)

UK - 15 min. STEL: 560 mg/m<sup>3</sup> (equivalent to 150 ppm)

BUTANE

UK - 8 hour TWA: 1450 mg/m<sup>3</sup> (equivalent to 600 ppm)

UK - 15 min. STEL: 1810 mg/m<sup>3</sup> (equivalent to 750 ppm)

2-AMINOETHANOL

UK - 8 hour TWA: 7.6 mg/m<sup>3</sup> (equivalent to 3 ppm)

UK - 15 min. STEL: 15 mg/m<sup>3</sup> (equivalent to 6 ppm)

ISOBUTANE

UK - 8 hour TWA: 2400 mg/m<sup>3</sup> (equivalent to 800 ppm)

UK - 15 min. STEL: 9600 mg/m<sup>3</sup>

### 8.2 Exposure controls

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment is not a source of ignition.

**Eye/face protection:** Safety glasses.

**Skin protection:**

**Hand protection:** For prolonged or repeated skin contact, use suitable gloves.

**Other:** Due to packaging skin exposure is not expected. If the product is used over a prolonged period protective gloves are required.

**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Thermal hazards:** Not relevant

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** Liquid in aerosol container

**Odour:** Organic solvents

**Odour threshold:** n.a.

**pH:** n.a.

<b>Melting point/freezing point:</b>	n.a.
<b>Initial boiling point and boiling range:</b>	n.a.
<b>Flash point:</b>	< -40 °C
<b>Evaporation rate:</b>	n.a.
<b>Flammability limits %</b>	
<b>Lower:</b>	1.8
<b>Upper:</b>	9.5
<b>Vapour pressure:</b>	n.a.
<b>Vapour density</b>	n.a.
<b>Relative density:</b>	n.a.
<b>Solubility:</b>	n.a.
<b>Partition Coefficient: n-octanol/water:</b>	n.a.
<b>Auto-ignition temperature:</b>	410 – 580 °C
<b>Decomposition temperature:</b>	n.a.
<b>Viscosity:</b>	n.a.
<b>Explosive properties:</b>	n.a.
<b>Oxidising properties:</b>	n.a.

## 9.2 Other information

No further details

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity

Stable under normal conditions. Stable at room temperature.

## 10.2 Chemical stability

Stable under normal conditions. Stable at room temperature.

## 10.3 Possibility of hazardous reactions

No relevant information.

## 10.4 Conditions to avoid

Heat. Direct sunlight. Hot surfaces. Sources of ignition. Flames. Sparks

## 10.5 Incompatible materials

Do not mix with oxidisers

## 10.6 Hazardous decomposition products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion nitrous oxide is also formed.

# SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

**Acute Toxicity:** Irritating to eyes, respiratory system and skin.

**Irritation:** Prolonged contact with skin may cause skin dryness and cracking. Contact with eyes may cause irritation and pain. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal. In high concentrations, vapours and aerosol mists have a narcotic effect. The mist may have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death. Arrhythmia (deviation from normal heart beat).

**Corrosivity:** No effect

**Sensitisation:** No effect

**Repeated dose toxicity:** No effect

**Carcinogenicity:** Not expected to be carcinogenic.

**Mutagenicity:** Not expected to be mutagenic

**Toxicity for reproduction:** No effect

**Route of exposure:** Inhalation

**Symptoms related to the physical, chemical and toxicological characteristics:** Arrhythmia, (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

This product is not expected to be of ecotoxicological concern.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No negative effects on the aquatic environment are known.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

### 12.6 Other adverse effects

No further details

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Disposal operations** - Do not puncture or incinerate even when empty.

**Disposal of packaging** – Ensure that containers are empty before discarding. Empty containers must not be burned because of explosion hazard. Dispose of according to all local, regional, national and international laws.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN-Number

UN1950

### 14.2 UN Proper Shipping Name

Aerosol

### 14.3 Transport Hazard Class

Class 2: Class Labels 2.1 (limited quantity)

### 14.4 Packing Group

None Assigned.

### 14.5 Environmental hazards

Not Environmentally Hazardous Substance

### 14.6 Special precautions for user

Away from sources of heat

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

Not applicable to packaged goods

**Mode-specific information:**

<b>ROAD/RAIL (ADR/RID/CDG)</b>	Transport category 2  Tunnel restriction code D
<b>SEA (IMDG)</b>	Not Marine Pollutant  EmS F-D S-U
<b>AIR (ICAO/IATA)</b>	ERG Code 10C

Aerosol capacity less than 1 litre can be carried under the Limited Quantities provisions of all carriage modes

## SECTION 15: REGULATORY INFORMATION

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

#### According to CHIP

**Hazard symbols:** Extremely Flammable  
Irritant



#### Risk phrases

- R12: Extremely flammable.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R67: Vapours may cause drowsiness and dizziness.

#### Safety Phrases

- S9: Keep container in a well-ventilated place
- S16: Keep away from sources of ignition – No smoking
- S23: Do not breathe spray
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S33: Take precautionary measures against static discharges.
- S38: In case of insufficient ventilation, wear suitable respiratory equipment.
- S43: In case of fire, use foam, carbon dioxide, dry powder or water fog.
- S60: This material and its container must be disposed of as hazardous waste.

#### Precautionary phrases

P24: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray near a naked flame or any incandescent material.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been conducted.

## SECTION 16: OTHER INFORMATION

### Other information

This safety data sheet is prepared in accordance with Regulation (EC) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

### Risk phrases used in Section 3

R10: Flammable.

R12: Extremely flammable.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

R67: Vapours may cause drowsiness and dizziness.

### Legal disclaimer

**The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.**