

**MATERIAL SAFETY DATA SHEET****XENUM X-CUT**

Conform following 91/155 EEC (2001/58/EEC)

Date: 22/02/2007

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**PRODUCT NAME:** XENUM X-CUT**PRODUCT CODE:** 4144500**HAZARD LABELING (EC) STATEMENTS H- AND P-:** see section 15**TRANSPORT LABELING:** see section 14**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION****Product name:** XENUM X-CUT**Product code:** 4144500**Commercial use:** Lubricant**Supplier:** XENUM N.V.  
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B – 9200 Dendermonde  
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e-mail: [info@xenum.eu](mailto:info@xenum.eu)**Emergency telephone number:** +32 52 22 38 08**Responsible MSDS:** [info@xenum.eu](mailto:info@xenum.eu)**2. IDENTIFICATION OF HAZARDS****Hazard description:****F+** Extremely flammable**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

**R 12** Extremely flammable.

**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 on a naked flame or any incandescent material.  
Keep away from sources of ignition – No smoking.  
Buildup of explosive mixtures possible without sufficient ventilation.

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterization**

**Description:** Active substance with propellant

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## Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	10-25%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4. FIRST AID

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Generally the product does not irritate the skin.  
**After eye contact:** Rinse opened eye for several minutes under running water.  
**After swallowing:** Do not induce vomiting; call for medical help immediately.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing agents:** Water haze  
Fire-extinguishing powder  
Carbon dioxide  
Alcohol resistant foam

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**Protective equipment:** Mount respiratory protective device.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment. Keep unprotected persons away.  
**Environmental precautions:** No special measures required.  
**Clean up methods:** Ensure adequate ventilation.

## 7. HANDLING AND STORAGE

### HANDLING

#### Information

##### for safe handling:

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

##### Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
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.

### STORAGE

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.

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## Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurized containers.

## Further information about storage conditions:

Keep receptacle tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Additional information about design of technical facilities:

No further data; see item 7.

### Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane	
WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

### Additional information:

The lists valid during the making were used as basis.

### Personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device.  
In case of intensive or longer exposure use self-contained respiratory protective device.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter AX/P2

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation / the chemical mixture.  
Solvent resistant gloves  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Nitrile rubber, NBR

#### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



#### Eye protection:

Tightly sealed goggles

#### Body protection:

Use protective suit.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information:

**Form:** Aerosol  
**Colour:** According to product specification  
**Odour:** Characteristic

### Change in condition:

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** -44°C

**Flash point:** -97°C

**Ignition temperature:** 365°C

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive.  
However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**  
Lower: 1.5 Vol %  
Upper: 10.9 Vol %

**Vapour pressure at 20°C:** 3 Bar

**Density at 20°C:** 0.76100 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Solvent content:** Organic solvents: 30%

## 10. STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

**Primary irritant effect:**  
**on the skin:** No irritant effect.  
**on the eye:** Irritating effect.  
**Sensitization:** No sensitizing effects known.

## 12. ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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## 13. DISPOSAL CONSIDERATIONS

### Product:

**Recommendation:** Must not be disposed together with household garbage.  
Do not allow product to reach sewage system.

### Uncleaned packaging:

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

## 14. TRANSPORT INFORMATION

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

**ADR/RID class:** 2 5F Gases.  
**Danger code (Kemler):** 23  
**UN-Number:** 1950  
**Packaging group:** -  
**Hazard label:** 2.1  
**Description of goods:** 1950 AEROSOLS

### 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:** -  
**Proper shipping name:** AEROSOLS, flammable

## 15. REGULATORY INFORMATION

### 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:

**R 12** Extremely flammable.

### Safety phrases:

**2** Keep out of the reach of children.

**23** Do not breathe fumes/aerosol.

**46** If swallowed, seek medical advice immediately and show this container or label.

**51** Use only in well-ventilated areas.

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## Special labelling of certain preparations:

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 on a naked flame or any incandescent material.

Keep away from sources of ignition – No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

## National regulations:

### Technical instructions (air):

Class	Share in %
NK	25-50

**VOC-CH** 30.00 %

**VOC-EU** 228.3 g/l

**Danish MAL Code** 1-1

## 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.

### Relevant R-phrases:

**12** Extremely flammable.

**Department issuing MSDS:** Research & Development

Contact: [info@xenum.eu](mailto:info@xenum.eu)

This data is complementary to the technical bulletin of use but does not replace it. The information contained herein is based on the state of our knowledge concerning the products as at the date indicated. It has been given in good faith. The user however, should be aware of subsequent risks that may arise if this product is used in a manner for which it is not being developed. However, this does not give a dispensation to the user not to have knowledge of and apply the appropriate regulations relating to his business. The sole responsibility lies with the user rather than the producer, the regulatory requirements assembled here are set down simply to help the final user fulfil his statutory obligations, however this listing should not be considered as exhaustive. The user must issue himself that he is taking all necessary obligations other than what is set down in the text here.