

MATERIAL SAFETY DATA SHEET**XENUM PTFE GLISS DRY**

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

Date: 21/02/2007

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PRODUCT NAME: XENUM PTFE GLISS DRY**PRODUCT CODE:** 4137500**HAZARD LABELING (EC) STATEMENTS H- AND P-:** see section 15**TRANSPORT LABELING:** see section 14**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION****Product name:** XENUM PTFE GLISS DRY**Product code:** 4137500**Commercial use:** Lubricant**Supplier:** XENUM N.V.
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e-mail: info@xenum.eu**Emergency telephone number:** +32 52 22 38 08**Responsible MSDS:** info@xenum.eu**2. IDENTIFICATION OF HAZARDS****Hazard description:****Xi** Irritant**F+** Extremely flammable**N** Dangerous for the environment**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.

Has a narcotizing effect.

R 12 Extremely flammable.**R 38** Irritating to skin.**R 51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R 67** Vapours may cause drowsiness and dizziness.**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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Active substance with propellant

Dangerous components:

CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light	Xn, Xi, F, N; R 11-38-51/53-65-67	50-100%
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: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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.

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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.

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 ³ , 750 ppm Long-term value: 1450 mg/m ³ , 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

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:



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

Nitrile rubber, NBR

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Penetration time of glove material:

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).
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.

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: 200°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: 0.8 Vol %
Upper: 10.9 Vol %

Vapour pressure at 20°C: 8300 hPa

Density at 20°C: 0.65000 g/cm³

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

Solvent content: Organic solvents: 96%

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:** Irritant to skin and mucous membranes.
on the eye: No irritating effect.
Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12. ECOLOGICAL INFORMATION**Ecotoxicological effects:**

Remark: Harmful to fish

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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

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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:



Xi Irritant



F+ Extremely flammable



N Dangerous for the environment

Risk phrases:

R 12 Extremely flammable.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.

Safety phrases:

2 Keep out of the reach of children.
23 Do not breathe fumes/aerosol.
24 Avoid contact with skin.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

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	50-100

Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

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VOC-CH 96.00 %
VOC-EU 624.0 g/l
Danish MAL Code 5-3

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:

- 11** Highly flammable.
- 12** Extremely flammable.
- 38** Irritating to skin.
- 51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65** Harmful: may cause lung damage if swallowed.
- 67** Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Research & Development

Contact: 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.
