

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

According to 1907/2006 EEC Article 31

Date: 14/01/2013

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1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**1.1. Product identifier****Product name:** XENUM DRY GLISS PTFE**Product code:** 4137500**1.2. Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC24 Lubricants, greases, release products

Process category

PROC11 Non industrial spraying

Environmental release category

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8d Wide dispersive outdoor use of processing aids in open systems

Application of the substance / the preparation:

Lubricant

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:** XENUM N.V.
Steenkaaistraat 17
B – 9200 Dendermonde
Tel: +32 52 22 38 08
Fax: +32 52 22 51 60
e-mail: info@xenum.eu**Contact Person:** Peter Tossyn**1.4 Emergency telephone number:**

+32 479 82 08 08 (9 AM to 4 PM, Monday to Friday)

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Aerosol 1

H222 Extremely flammable aerosol.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2
STOT SE 3H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R38: Irritating to skin.



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

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.

Classification system:

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

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS02



GHS07



GHS09

Signal word:

Danger

Hazard statements:**H222**

Extremely flammable aerosol.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements:

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P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P321	Specific treatment (see on this label).
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: 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.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Additional information:

CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35 01-2119475515-33	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-<25%
CAS: 64742-82-1 EC number: 919-446-0 Reg.nr.: 01-2119458049-33	Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates (2-25%) Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	1.0-<2.5%

3.2. Mixtures

Description: Active substance with propellant

Dangerous components: -

Additional information:

4. FIRST AID MEASURES

4.1. Description of first aid measures

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- 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.

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

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIREFIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing agents:**

Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters**Protective equipment:** Mount respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions:

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

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.

6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE**7.1. Precautions 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.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:

No further data; see item 7.

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane (containing < 0.1% butadiene (203-450-8))	
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)
74-98-6 propane	
OEL	Short-term value: 3600 mg/m ³ , 2000 ppm Long-term value: 1800 mg/m ³ , 1000 ppm

DNELs

64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer) 773 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	608 mg/m ³ (Consumer) 2035 mg/m ³ (Worker)
64742-82-1 Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)		
Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	26 mg/kg bw/day (Consumer) 44 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	71 mg/m ³ (Consumer) 330 mg/m ³ (Worker)

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment:

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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.
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

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**9.1. Information on basic physical and chemical properties****General Information:****Appearance:**

Form: Aerosol
Colour: According to product specification
Odour: Characteristic
Odour threshold: Not determined.

pH-value:

Not determined.

Change in condition:

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44 °C

Flash point:

-97 °C

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

200 °C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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Explosion limits:

Lower: 0.6 Vol %
Upper: 10.9 Vol %

Vapour pressure at 20 °C: 4 Bar

Density at 20 °C: 0.65 g/cm³
Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not applicable.

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

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.
Kinematic: Not determined.

Solvent content:

Organic solvents: 97.8 %

Solids content: 1.2 %

9.2. Other information No further relevant information available.

10. STABILITY AND REACTIVITY**10.1. Reactivity****10.2. Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid No further relevant information available.

10.5. Incompatible materials:

No further relevant information available.

10.6. Hazardous decomposition products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalative	LC50/4h	>25 mg/l (rat)
64742-82-1 Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	> 3160 mg/kg (rabbit)

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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**12.1. Toxicity****Aquatic toxicity:****64742-49-0 Naphtha (petroleum), hydrotreated light**

EL50 (72h)	30-100 mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	3 mg/l (Daphnia magna)
LL50 (96h)	11.4 mg/l (Oncorhynchus mykiss (96h))
LOEC (21 days)	0.32 mg/l (Daphnia magna)
NOEC (21 days)	0.17 mg/l (Daphnia magna)
NOELR (72h)	3 mg/l (Pseudokirchneriella subcapitata)

64742-82-1 Hydrocarbon, C9-C12, n-alkanes, iso-alkenes, cyclic, aromates(2-25%)

EL50 (72h)	4.6-10 mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	10-22 mg/l (Daphnia magna)
LL50 (96h)	10-30 mg/l (Oncorhynchus mykiss (96h))
LOEC (21 days)	0.203 mg/l (Daphnia magna)
NOEC (21 days)	0.097 mg/l (Daphnia magna)
NOELR (72h)	1 mg/l (Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Ecotoxicological effects:**Remark:** Toxic for fish**Additional ecological information:**

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

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6. Other adverse effects No further relevant information available.

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13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

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**14.1. UN-Number**

ADR, IMDG, IATA UN1950

14.2. UN proper shipping name

ADR 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG AEROSOLS (Naphtha (petroleum), hydrotreated light,
IATA TURPENTINE SUBSTITUTE), MARINE POLLUTANT
AEROSOLS, flammable

14.3. Transport hazard class(es)**ADR**

Class 2 5F Gases.
Label 2.1

IMDG

Class 2.1
Label 2.1

IATA

Class 2.1
Label 2.1

14.4. Packing group

ADR, IMDG, IATA Void

14.5. Environmental hazards:**Marine pollutant:**

Product contains environmentally hazardous substances:
Naphtha (petroleum), hydrotreated light

Yes
Symbol (fish and tree)
Symbol (fish and tree)

Special marking (ADR):**14.6. Special precautions for user**

Danger code (Kemler): Warning: Gases.
-
EMS Number: F-D,S-U

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

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)** 1L**Transport category** 2**Tunnel restriction code** D**UN "Model Regulation":** UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1**15. REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Technical instructions (air):**

Class	Share in %
NK	50-100

VOC-CH 97.79 %**VOC-EU** 635.6 g/l**Danish MAL Code** 5-3**15.2. Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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 phrases

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Research & Development**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent