

**MATERIAL SAFETY DATA SHEET****XENUM BRAKE CLEANER PRO XXXL**

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 1/12

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier****Product name:** XENUM BRAKE CLEANER PRO XXXL**Product code:** 4175750**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)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

**Product category**

PC35 Washing and cleaning products (including solvent based products)

**Process category**

PROC11 Non industrial spraying

PROC7 Industrial spraying

**Application of the substance / the preparation:** Cleaner solvent**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-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 2/12

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

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



GHS07

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

Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



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.

**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.

**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



GHS08



GHS09

**Signal word:** Danger**Hazard-determining components of labelling:**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 3/12

**Hazard statements:**

<b>H222-H229</b>	Extremely flammable aerosol. Pressurised container: May burst if heated.
<b>H315</b>	Causes skin irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
<b>P251</b>	Pressurized container: Do not pierce or burn, even after use.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P280</b>	Wear protective gloves / eye protection.
<b>P273</b>	Avoid release to the environment.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P261</b>	Avoid breathing mist/vapours/spray.
<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
<b>P304+P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P331</b>	Do NOT induce vomiting.
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>P403</b>	Store in a well-ventilated place.
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

**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	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics. 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-<75%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene (mix) Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	12.5-<20%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	3-<10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas, H280	3-<10%

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 4/12

**3.2 Mixtures****Description:** Active substance with propellant**Dangerous components:** None**Ingredients according to detergents guideline 648/2004/EC**

aliphatic hydrocarbons	≥ 30%
aromatic hydrocarbons	15 - 30%

**Additional information:****4. FIRST AID MEASURES****4.1 Description of first aid measures****General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.**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 wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**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:**

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:**

Dispose contaminated material as waste according to item 13.  
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:**

<b>1330-20-7 xylene (mix)</b>	
WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
<b>67-64-1 Acetone</b>	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

# MATERIAL SAFETY DATA SHEET

XENUM BRAKE CLEANER PRO XXXL

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 6/12

<b>124-38-9 carbon dioxide</b>	
WEL	Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm

## DNELs

<b>64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.</b>		
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 <sup>3</sup> (Consumer) 2035 mg/m <sup>3</sup> (Worker)
<b>67-64-1 Acetone</b>		
Oral	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	62 mg/kg bw/day (Consumer) 186 mg/kg bw/day (Worker)
Inhalative	DNEL Acute-local DNEL Long term-systemic	2420 mg/m <sup>3</sup> (Worker) 200 mg/m <sup>3</sup> (Consumer) 1210 mg/m <sup>3</sup> (Worker)

## PNECs

<b>67-64-1 Acetone</b>	
PNEC Freshwater sediment	30.4 mg/kg (Undefined)
PNEC Marine water	1.06 mg/l (Undefined)
PNEC Marine water sediment	3.04 (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)

## Ingredients with biological limit values:

<b>1330-20-7 xylene (mix)</b>	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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

## 8.2. Exposure controls

### 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.  
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**

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**

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: 78 °C

**Flash point:** -19 °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.

**Explosion limits:**

Lower: 0.8 Vol %  
Upper: 13.0 Vol %

**Vapour pressure at 20°C:** 5 Bar

**Density at 20°C:**

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.

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 8/12

**Viscosity:**Dynamic: Not determined.  
Kinematic: Not determined.**Solvent content:**

Organic solvents: 96.3 %

**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 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.**

Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalative	LC50/4h	>25 mg/l (rat)

**1330-20-7 xylene (mix)**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)

**67-64-1 Acetone**

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	7800 mg/kg (rbt)
Inhalative	LC50/4h	>20 mg/l (rat)

**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:  
Harmful  
Irritant



According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 9/12

**12. ECOLOGICAL INFORMATION****12.1. Toxicity****Aquatic toxicity:**

<b>64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.</b>	
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)
<b>1330-20-7 xylene (mix)</b>	
EC50/48h	3.2-9.5 mg/l (Daphnia magna)
LC50/96h	8.9-16.4 mg/l (Pimephales promelas)
<b>67-64-1 Acetone</b>	
EC50	8800 mg/l (Daphnia magna) 8300 (96h) mg/l (Fish)

**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.

**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.**European waste catalogue**

20 01 99	other fractions not otherwise specified
07 01 04*	other organic solvents, washing liquids and mother liquors

# MATERIAL SAFETY DATA SHEET

XENUM BRAKE CLEANER PRO XXXL

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 10/12

15 01 04	metallic packaging
----------	--------------------

## 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  
**IATA** AEROSOLS, flammable

### 14.3. Transport hazard class(es)

**ADR**



**Class** 2 5F Gases.  
**Label** 2.1

**IMDG, IATA**



**Class** 2.1  
**Label** 2.1

### 14.4. Packing group

**ADR, IMDG, IATA** Void

### 14.5. Environmental hazards:

**Marine pollutant:** No  
**Special marking (ADR):** Symbol (fish and tree)

### 14.6. Special precautions for user

**Danger code (Kemler):** -  
**EMS Number:** F-D,S-U

### 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  
**Excepted quantities (EQ) Code:** E0  
Not permitted as Excepted Quantity

**Transport category** 2  
**Tunnel restriction code** D

**IMDG**

**Limited quantities (LQ)** 1L  
**Excepted quantities (EQ) Code:** E0

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 11/12

Not permitted as Excepted Quantity

**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	75-<100

**VOC-CH** 96.30 %**VOC-EU** 745.4 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**

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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
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
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
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code:	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

# **MATERIAL SAFETY DATA SHEET**

**XENUM BRAKE CLEANER PRO XXXL**

According to 1907/2006 EEC Article 31

Date: 30/10/2014

Page 12/12

---

DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Flam. Aerosol 1:	Flammable aerosols, Hazard Category 1
Press. Gas:	Gases under pressure: Liquefied gas
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Flam. Liq. 3:	Flammable liquids, Hazard Category 3
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - Chronic Hazard, Category 2