

**MATERIAL SAFETY DATA SHEET****XENUM WELD PRO**

According to 1907/2006 EEC Article 31

Date: 23/07/2012

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**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION****Product identifier****Product name:** XENUM WELD PRO**Product code:** 4120500**Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

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

**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:**

Metal surface treatment

**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  
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e-mail: info@xenum.eu**Contact Person:** Peter Tossyn**Emergency telephone number:**

During normal opening hours: +32 479 82 08 08

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

GHS02 flame

Flam. Aerosol 1

H222 Extremely flammable aerosol.



GHS07

Eye Irrit. 2

H319 Causes serious eye irritation.

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STOT SE 3 H336 May cause drowsiness or dizziness.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**Xi; Irritant  
R36: Irritating to eyes.F+; Extremely flammable  
R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. 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.  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
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.**Label elements****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

**Risk phrases:**

**12** Extremely flammable.  
**36** Irritating to eyes.  
**66** Repeated exposure may cause skin dryness or cracking.  
**67** Vapours may cause drowsiness and dizziness.

**Safety phrases:**

**2** Keep out of the reach of children.  
**16** Keep away from sources of ignition - No smoking.  
**23** Do not breathe vapour/spray.  
**24/25** Avoid contact with skin and eyes.  
**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.  
Buildup of explosive mixtures possible without sufficient ventilation.

**Classification in accordance with Directive 75/324/EEC:**

Extremely flammable

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterization:** Substances**Additional information:**

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	25-<50%
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	25-<50%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	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: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%

**Chemical characterization:** Mixtures**Description:** Active substance with propellant**Dangerous components:** -**4. FIRST AID****Description of first aid measures**

- 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.  
If symptoms persist, consult a doctor.
- After swallowing:** Do not induce vomiting; call for medical help immediately.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5. FIRE FIGHTING MEASURES****Extinguishing media****Suitable extinguishing agents:**Water haze  
Fire-extinguishing powder

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Carbon dioxide  
Alcohol resistant foam

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

**Special hazards arising from the substance or mixture**

No further relevant information available.

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

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

**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.

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**7. HANDLING AND STORAGE****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.

**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.

**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.

**Control parameters**

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

<b>106-97-8 butane (containing &lt; 0.1% butadiene (203-450-8))</b>	
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)
<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
<b>67-63-0 propan-2-ol</b>	
WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
<b>74-98-6 propane</b>	
OEL	Short-term value: 3600 mg/m <sup>3</sup> , 2000 ppm Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
<b>123-86-4 n-butyl acetate</b>	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

**DNELs**

<b>67-64-1 Acetone</b>		
Dermal	DNEL Long term-systemic	186 mg/kg bw/day (Worker)
Inhalative	DNEL Acute-local	2420 mg/m <sup>3</sup> (Worker)
	DNEL Long term-systemic	1210 mg/m <sup>3</sup> (Worker)
<b>67-63-0 propan-2-ol</b>		
Oral	DNEL Long term-systemic	26 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	319 mg/kg bw/day (Consumer)
		888 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	89 mg/m <sup>3</sup> (Consumer)
		500 mg/m <sup>3</sup> (Worker)

**PNECs**

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

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

**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 eyes.

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

**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

### 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:** 365°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: 1.5 Vol %  
Upper: 13.0 Vol %

**Vapour pressure at 20°C:** 4 Bar

**Density at 20°C:** 0.683 g/cm<sup>3</sup>  
Relative density: Not determined.

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Vapour density Not determined.  
Evaporation rate Not applicable.

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

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

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

**Solvent content:**  
Organic solvents: 93.0 %

**Solids content:** 7.0 %

**Other information** No further relevant information available.

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## 10. STABILITY AND REACTIVITY

### Reactivity

### Chemical stability

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

**Possibility of hazardous reactions**  
No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:**  
No further relevant information available.

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

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

<b>67-64-1 Acetone</b>		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	7800 mg/kg (rbt)
Inhalative	LC50/4h	>20 mg/l (rat)
<b>67-63-0 propan-2-ol</b>		
Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50/6h	25000 mg/m3 (rat)

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

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**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****Toxicity****Aquatic toxicity:**

<b>67-64-1 Acetone</b>	
EC50	8800 mg/l (Daphnia magna) 8300 (96h) mg/l (Fish)
<b>67-63-0 propan-2-ol</b>	
LC50 (24h)	9714 mg/l (Daphnia magna)
LC50/96h	9640 mg/l (Pimephales promelas)
LOEC (8 days)	1000 mg/l (algae)

**Persistence and degradability**

No further relevant information available.

**Behaviour in environmental systems:****Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment):  
slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

PBT: Not applicable.  
vPvB: Not applicable.

**Other adverse effects**

No further relevant information available.

**13. DISPOSAL CONSIDERATIONS****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****UN-Number**

ADR, IMDG, IATA

UN1950

**UN proper shipping name**

ADR

1950 AEROSOLS



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**IMDG** AEROSOLS  
**IATA** AEROSOLS, flammable

## Transport hazard class(es)

### ADR



Class 2 5F Gases  
Label 2.1

### IMDG, IATA



Class 2.1  
Label 2.1

### Packing group

**ADR, IMDG, IATA** Void

### Environmental hazards:

**Marine pollutant:** No

### Special precautions for user

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

### 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, 2.1

## 15. REGULATORY INFORMATION

### 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** 93.00 %  
**VOC-EU** 635.2 g/l  
**Danish MAL Code** 3-1

### Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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**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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
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
MAL-Code:	Måleteknisk Arbejdshygiejnisk 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

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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.

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