

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** XENUM XT-POWERSHIFT
- **Article number:** 1549001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - 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**
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
- **Environmental release category**
 - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
 - ERC7 Industrial use of substances in closed systems
 - ERC9a Wide dispersive indoor use of substances in closed systems
 - ERC9b Wide dispersive outdoor use of substances in closed systems
- **Application of the substance / the mixture** Transmission oil
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - XENUM N.V.
 - Steenkaaistraat 17
 - B-9200 Dendermonde - Belgium
 - T: +32 52 22 38 08 - F: +32 52 22 51 60
 - E-mail: info@xenum.eu
- **Further information obtainable from:** Product safety department - info@xenum.eu.
- **1.4 Emergency telephone number:** +32 479 82 08 08 (9 AM to 4 PM, Monday to Friday)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 - R52/53: Harmful 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.
- **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** Void
- **Signal word** Void
- **Hazard statements**
 - H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 1)

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH208 Contains Ethanol, 2,2'-iminobis-, N-tallow alkylderivs., 2-ethylhexyl methacrylate, C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Dangerous components:**

CAS: 72623-87-1 EINECS: 276-738-4 Reg.nr.: 01-2119474889-13	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ⚠ Asp. Tox. 1, H304	25-50%
	Interchangeable low viscosity base oil (<20,5 cSt @40 °C) * ⚠ Asp. Tox. 1, H304	2.5-10%
CAS: 68784-17-8 EINECS: 272-225-4 Reg.nr.: 01-2119960832-33	Isooctadecanoic acid, reaction products with tetraethylenepentamine ⚠ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%
CAS: 36878-20-3 EINECS: 253-249-4 Reg.nr.: 01-2119488911-28	bis(nonylphenyl)amine R53 Aquatic Chronic 4, H413	1-2.5%
CAS: 91648-65-6 EINECS: 293-927-7 Reg.nr.: 01-2119976351-35	substituted thiadiazol ⚠ Xi R38 R52/53 Aquatic Chronic 3, H412	1-2.5%
CAS: 398141-87-2 EC number: 800-172-4 Reg.nr.: 01-2119969520-35	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich ⚠ N R51/53 ⚠ Aquatic Chronic 2, H411	0.1-1.0%
CAS: 61791-44-4 EINECS: 263-177-5	Ethanol, 2,2'-iminobis-, N-tallow alkylderivs. ⚠ C R34; ⚠ Xn R22; ⚠ Xi R43; ⚠ N R50 ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	0.1-1.0%
CAS: 688-84-6 EINECS: 211-708-6 Reg.nr.: 01-2119490166-35	2-ethylhexyl methacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	0.1-1.0%
CAS: 122-39-4 EINECS: 204-539-4	diphenylamine ⚠ T R23/24/25; ⚠ N R50/53 R33 ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-1.0%
	C14-18 alpha-olefin epoxide, reaction products with boric acid ⚠ Skin Sens. 1B, H317	0.1-1.0%

Additional information:

* Contains one or more of the following CAS-numbers: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-65-0, 64742-71-8, 68037-01-4, 72623-83-7, 72623-

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 2)

85-9, 72623-86-0, 72623-87-1, 74869-22-0, 8042-47-5, 848301-69-9.
For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 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.
- **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.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Avoid the formation of oil haze.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 3)

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 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:**
Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

122-39-4 diphenylamine

WEL	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³
-----	---

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Wear gloves for the protection against chemicals according to EN 374.

Oil resistant gloves

- **Material of gloves**

Nitrile rubber, NBR

PVC gloves

Neoprene 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.

- **Penetration time of glove material**

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed.

Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the 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:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Fluid

Colour:

Clear

- **Odour:**

Characteristic

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 4)

· Change in condition	
Boiling point/Boiling range:	Undetermined.
· Drip point:	
Pour point	-48 °C (ASTM D97)
· Flash point:	201 °C
· Flammability (solid, gaseous):	Not applicable.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Density at 20 °C:	0.854 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Kinematic at 40 °C:	34 mm ² /s
· 100 °C	7.0 mm ² /s (ASTM D445)
· Solvent content:	
Organic solvents:	0.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

122-39-4 diphenylamine		
Oral	LD50	1120 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitisation:** No sensitising effects known.

- **Sensitisation** For respiratory and skin sensitisation: Not expected to be a sensitiser.

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

GB

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 5)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

122-39-4 diphenylamine

LC50 (48 h) 1100 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:** Harmful to fish

· Remark:

This material is expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

· Additional ecological information:

· General notes:

Harmful to aquatic organisms

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.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· 12.6 Other adverse effects

No further relevant information available.

SECTION 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

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

· Uncleaned packaging:

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

SECTION 14: Transport information

· 14.1 UN-Number

· **ADR, ADN, IMDG, IATA**

Void

· 14.2 UN proper shipping name

· **ADR, ADN, IMDG, IATA**

Void

· 14.3 Transport hazard class(es)

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

· 14.4 Packing group

· **ADR, IMDG, IATA**

Void

· 14.5 Environmental hazards:

· **Marine pollutant:**

No

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 6)

- | | |
|---|-----------------|
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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**

- | | |
|-----------|--|
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| | |
| R22 | Harmful if swallowed. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R33 | Danger of cumulative effects. |
| R34 | Causes burns. |
| R36/38 | Irritating to eyes and skin. |
| R38 | Irritating to skin. |
| R43 | May cause sensitisation by skin contact. |
| R50 | Very toxic to aquatic organisms. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R53 | May cause long-term adverse effects in the aquatic environment. |

- **Department issuing MSDS:** Product safety department.
- **Contact:** Product safety department

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2015

Version number 1

Revision: 13.01.2015

Trade name: XENUM XT-POWERSHIFT

(Contd. of page 7)

· Abbreviations and acronyms:

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 Harmonised 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Met. Corr. 1: Corrosive to metals, Hazard Category 1
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

· Sources

67/548/EEC
 99/45/EEC
 EC/453-2010

GB