

MATERIAL SAFETY DATA SHEET**XENUM X-BRAKE DOT 4**

Conform following 1907/2006/EC, Article 31

Date: 22/01/2009

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PRODUCT NAME: XENUM X-Brake DOT 4
PRODUCT CODE: 1358500
HAZARD LABELING (EC) STATEMENTS H- AND P-: see section 15
TRANSPORT LABELING: see section 14

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Product name: XENUM X-Brake DOT 4
Product code: 1358500
Commercial use: Brake fluid for car brakes
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
Emergency telephone number: +32 52 22 38 08
Responsible MSDS: info@xenum.eu

2. IDENTIFICATION OF HAZARDS**Hazard description:** Not applicable**Information concerning particular hazards for human and environment:**

The product does not have 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.

GHS label elements: Void**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 143-22-6 EINECS: 205-592-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	 Xi; R 41	2.5-10%
		Danger:  3.3/1	
CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol	 Xi; R 36	2.5-10%
		Warning:  3.3/2A	

Additional information: For the wording of the listed risk phrases refer to section 16.

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4. FIRST AID

General information: No special measures required.

ADVICE IN CASE OF:

Inhalation: Supply fresh air; consult doctor in case of complaints.

Skin contact: Generally the product does not irritate the skin.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: Do not induce vomiting; call for medical help immediately.

Information for doctor: Treatment If swallowed or in case of vomiting, danger of entering the lungs.

5. FIRE FIGHTING MEASURES

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

**Special hazards caused
by the substance, its products of
combustion or resulting gases:** Formation of toxic gases is possible during heating or in case of fire. ·

Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

**Person-related safety
precautions:** Wear protective clothing. ·

**Measures for
environmental protection:** Do not allow to enter sewers/ surface or ground water. ·

**Measures for
cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off). ·

Additional information: No dangerous substances are released.
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

HANDLING

Information for safe handling: No special measures required.

**Information about fire -
and explosion protection:** No special measures required.

STORAGE

**Requirements to be met by
storerooms and receptacles:** Store only in the original receptacle.

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Information about storage

in one common storage facility: Not required.

Further information

about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information

about design of technical facilities: No further data; see item 7.

Other measures:

112-34-5 2-(2-butoxyethoxy)ethanol	
WEL	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm

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

Personal protection equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:



Protective gloves

Material of gloves: PVC 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: Goggles recommended during refilling.

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Form: Liquid
Colour: Yellow
Odour: Weak, characteristic

Change in condition:

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: > 260 °C

Flash point: > 100 °C

Self igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

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Density at 20 °C:	1.05 g/cm ³
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
pH-value at 20°C:	7.5 - 11.5 (50 w-% aqua)
Viscosity at 100°C:	> 1.5 mm ² /s
Solvent content:	Organic solvents: 5.0 %

10. STABILITY AND REACTIVITY

Dangerous reactions:	Reacts with humid air.
Dangerous decomposition products:	Poisonous gases/vapours Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:	on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known.
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Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability):

Other information:	The product is difficultly biodegradable.
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.

13. DISPOSAL CONSIDERATIONS

Product:

Recommendation:	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
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European waste catalogue	
16 01 13	brake fluids

Uncleaned packaging:

Recommendation:	Disposal must be made according to official regulations.
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Recommended cleansing agents:

Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: -

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Maritime transport IMDG:

IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15. REGULATORY INFORMATION**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Safety phrases:

2 Keep out of the reach of children.
24 Avoid contact with skin.
46 If swallowed, seek medical advice immediately and show this container or label.

Special labelling of certain preparations:

Safety data sheet available for professional user on request.

National regulations: Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

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:

36 Irritating to eyes.
41 Risk of serious damage to eyes.

Department issuing MSDS: Product safety department.Contact: info@xenum.eu**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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

Sources:

67/548/EEC - Dangerous Substances Directive
99/45/EEC - Dangerous Preparations Directive

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.
