

## Xenum - Octane Booster

### SECTION 1 - Identification of the substance/mixture and of the company/undertaking

#### 1.1. - Product identifier

Trade name Xenum - Octane Booster  
Chemical name  
Product-type Mixture  
Product code 3277250

#### 1.2. - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture - Fuel and fuel additive

Uses advised against of the substance or mixture

- Do not use for products which come into contact with the food stuffs.
- Do not use for medical-clinical purposes.

#### 1.3. - Details of the supplier of the safety data sheet

XENUM NV/SA  
Vluchtenburgstraat 9  
2630 Aartselaar Belgium  
Phone +32(0)3 846 48 03  
XENUM HQ: +32(0)3 846 48 03 info@xenum.com

#### 1.4. - Emergency telephone number

- Poison Centre. Tel: (+32) 070 245 245 or (+32) 02 264 96 30 Belgium

BelgiumPoison Centre. Tel: (+32) 070 245 245 or (+32) 02 264 96 30  
NL Alleen voor professionele hulpverleners: Nationaal Vergiftigingen Informatiecentrum (NVIC):  
+31(0)3 02 74 88 88

### SECTION 2 - Hazards identification

#### 2.1. - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Muta. 1B	Germ cell mutagenicity, Category 1B
Carc. 1B	Carcinogenicity - Category 1B
Carc. 2	Carcinogenicity, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Asp. Tox. 1	Aspiration hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2

#### 2.2. - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).] (CAS No.: 64742-48-9)||Ferrocene (CAS No.: 102-54-5)||naphthalene (CAS No.: 91-20-3)

Signal word : Danger

## Xenum - Octane Booster

### Hazard pictograms



### Hazard statements

H304	May be fatal if swallowed and enters airways
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects

### Precautionary statements

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P273	Avoid release to the environment
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P405	Store locked up
P501	Dispose of contents/container to an accredited treatment center
EUH-phrases	: None

### 2.3. - Other hazards

PBT substance or mixture - No information available.

vPvB substance or mixture - No information available.

Other hazards which do not result in classification - No information available.

## SECTION 3 - Composition/information on ingredients

### 3.1. - Substances

Not applicable

### 3.2. - Mixtures

Chemical name	No	%	Class	Spec. concentrations
Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).]	CAS No. : 64742-48-9 Index No. : 649-327-00-6 EC No. : 265-150-3	75 - 95	Asp. Tox. 1 - H304 Carc. 1B - H350 Muta. 1B - H340	

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Chemical name	No	%	Class	Spec. concentrations
naphthalene	CAS No. : 91-20-3 Index No. : 601-052-00-2 EC No. : 202-049-5	< 5	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Carc. 2 - H351	
Distillates (petroleum), hydrotreated light	CAS No. : 64742-47-8 Index No. : EC No. : 265-149-8 REACH No. : 01-2119484819--18	< 1	Asp. Tox. 1 - H304 Flam. Liq. 3 - H226	
Ferrocene	CAS No. : 102-54-5 Index No. : EC No. : 203-039-3	< 1	Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Aquatic Chronic 1 - H410 Flam. Sol. 1 - H228 Repr. 1A (H360FD) - H360FD STOT RE 2 - H373	

### SECTION 4 - First aid measures

#### 4.1. - Description of first aid measures

<u>Measures in case of inhalation</u>	- No special measures are necessary. - Provide fresh air.
<u>Measures in case of contact with skin</u>	- Wash immediately with: Water - When in doubt or if symptoms are observed, get medical advice.
<u>Measures in case of contact with eyes</u>	- Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist.
<u>Measures in case of ingestion</u>	- Rinse mouth thoroughly with water. - Do NOT induce vomiting.

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

<u>Symptoms and effects after inhalation</u>	- No information available.
<u>Symptoms and effects after contact with skin</u>	- No information available.
<u>Symptoms and effects after contact with eyes</u>	- No information available.
<u>Symptoms and effects after ingestion</u>	- No information available.

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

- Treat symptomatically.

### SECTION 5 - Firefighting measures

#### 5.1. - Extinguishing media

<u>Suitable extinguishing media</u>	- ABC-powder - Carbon dioxide (CO2) - Foam - Extinguishing powder
<u>Unsuitable extinguishing media</u>	- High power water jet

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### 5.2. - Special hazards arising from the substance or mixture

Special hazards - No information available.

Decomposition products - Carbon dioxide (CO<sub>2</sub>)

### 5.3. - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

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## SECTION 6 - Accidental release measures

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### 6.1. - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.  
- Provide adequate ventilation.

For emergency responders - Use appropriate respiratory protection.  
- Wear personal protection equipment (refer to section 8).

### 6.2. - Environmental precautions

- Ensure waste is collected and contained.

### 6.3. - Methods and material for containment and cleaning up

Appropriate containment techniques - No information available.

Appropriate clean-up procedures - Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
- Wash with plenty of water.

Inappropriate techniques - No information available.

### 6.4. - Reference to other sections

- Disposal: see section 13  
- Personal protection equipment: see section 8

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## SECTION 7 - Handling and storage

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### 7.1. - Precautions for safe handling

Recommendations - No special technical protective measures are necessary.

Advice on general occupational hygiene - No information available.

### 7.2. - Conditions for safe storage, including any incompatibilities

- No information available.

### 7.3. - Specific end use(s)

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## SECTION 8 - Exposure controls/personal protection

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### 8.1. - Control parameters

### 8.2. - Exposure controls

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### Appropriate engineering controls

- No information available.

### Individual protection measures, such as personal protective equipment

- Suitable protective clothing: lab coat



- Eye protection



- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.



- Barrier creams are not substitutes for body protection.

- EN 374

- EN 420

- EN 455-3 (Rubber gloves)

- Suitable material: Butyl caoutchouc (butyl rubber)

- Suitable material: NBR (Nitrile rubber)

- Suitable material: PE (polyethylene)

- Required properties: Type 3  
Liquid-tight

- Check leak tightness/impermeability prior to use.

### Environmental exposure controls

- Use the following chemical treatment methods for waste water: Adsorption

## SECTION 9 - Physical and chemical properties

### 9.1. - Information on basic physical and chemical properties

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<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Color</u>	amber	<u>Odor</u>	characteristic
Odour threshold	No data available		
pH	No data available		
Melting point	< 0 °C		
Freezing point	No data available		
Boiling point	180 °C		
Flash point	66 °C		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	0,6 % Vol.		
Upper explosion limit	7 % Vol.		
Vapour pressure	0,95 hPa		
Vapour density	No data available		
Relative density	No data available		
Density	0,83 g/cm <sup>3</sup>		
Solubility (Water)	No data available		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC - Partition coefficient: n-octanol/water	No data available		
Auto-ignition temperature	235 °C		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		

### 9.2. - Other information

VOC content	78 %
Minimum ignition energy	No data available
Conductivity	No data available

## SECTION 10 - Stability and reactivity

### 10.1. - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2. - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4. - Conditions to avoid

- No information available.

### 10.5. - Incompatible materials

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- No information available.

### 10.6. - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11 - Toxicological information

### 11.1. - Information on toxicological effects

Acute toxicity - Not classified

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

Skin corrosion/irritation - Not classified

Serious eye damage/irritation - Not classified

Respiratory or skin sensitisation - Not classified

- not sensitising.

Germ cell mutagenicity - Germ cell mutagenicity, Category 1B - May cause genetic defects

- Muta. 1B, H340  
- May cause genetic defects.

Carcinogenicity - Carcinogenicity - Category 1B - May cause cancer  
- Carcinogenicity, Category 2 - Suspected of causing cancer

- Carc. 1B, H350  
- May cause cancer.

Reproductive toxicity - Reproductive toxicity, Category 1A - May damage fertility or the unborn child

- May damage fertility or the unborn child.

Specific target organ toxicity - Single exposure - Not classified

Specific target organ toxicity - Repeated exposure - Not classified

Aspiration hazard - Aspiration hazard, Category 1 - May be fatal if swallowed and enters airways

## SECTION 12 - Ecological information

### 12.1. - Toxicity

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available

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ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Toxic to aquatic life with long lasting effects.

### 12.2. - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

### 12.3. - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC - Partition coefficient: n-octanol/water	No data available

- No indication of bioaccumulation potential.

### 12.4. - Mobility in soil

- No information available.

### 12.5. - Results of PBT and vPvB assessment

- No information available.

- No information available.

### 12.6. - Other adverse effects

- No information available.

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## SECTION 13 - Disposal considerations

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### 13.1. - Waste treatment methods

Appropriate methods of waste treatment - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

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## SECTION 14 - Transport information

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### 14.1. - UN number

UN number (ADR) : UN3082

UN number (IMDG) : UN3082

### 14.2. - UN proper shipping name



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UN proper shipping name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN proper shipping name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3. - Transport hazard class(es)

ADR Class : 9

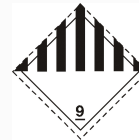
ADR Classification code : M6

Pictograms



Class (IMDG) : 9

Pictograms



### 14.4. - Packing group

Packing group : III

Packing group (IMDG) : III

### 14.5. - Environmental hazards

Environmental hazards : Yes

Marine pollutant : Hazardous to the aquatic environment — Chronic Hazard, Category 2

### 14.6. - Special precautions for user

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### **ADR**

<u>ADR Classification code</u>	:	M6
<u>ADR Special provisions</u>	:	274+335+375+601
<u>ADR Limited quantities</u>	:	5 L
<u>ADR Excepted quantities</u>	:	E1
<u>ADR Packing instructions</u>	:	P001 IBC03 LP01 R001
<u>ADR Special packing provisions</u>	:	PP1
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP29
<u>ADR tank code</u>	:	LGBV
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	3
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	CV13
<u>Special provisions - Packages</u>	:	V12
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	
<u>ADR Hazard Identification No.</u>	:	90

### **IMDG**

<u>Special provisions</u>	:	274, 909,944
<u>Limited quantities</u>	:	5L
<u>Excepted quantities</u>	:	
<u>Packing instructions</u>	:	IBC03
<u>Special packing provisions</u>	:	-
<u>IBC instruction(s)</u>	:	IBC03
<u>IBC provisions</u>	:	-
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP2, TP29
<u>EmS codes</u>	:	F-A, S-F
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	-
<u>Properties and observations</u>	:	

14.7. - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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## SECTION 15 - Regulatory information

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15.1. - Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>Components in the list of Reach candidates</u>	None
<u>Components in Annex XIV</u>	None
<u>Components in Annex XVII</u>	None

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VOC content 78 %

### 15.2. - Chemical safety assessment

Chemical safety assessment carried out for the product - No information available.

## SECTION 16 - Other information

### SDS versions

Version No.	Date of issue	Description of the amendments
1,01	24/04/2017	IMDG- Code
1	27/04/2016	

### Texts of the regulatory sentences

Acute Tox. 4 Inhalation	Acute toxicity (inhal.), Category 4
Acute Tox. 4 Oral	Acute toxicity (oral), Category 4
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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity - Category 1B
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H360FD(U)	May damage fertility. May damage the unborn child
H373	May cause damage to organs or state all organs affected, if known through prolonged or repeated exposure - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 1A	Reproductive toxicity, Category 1A
Repr. 1A (H360FD)	Reproductive toxicity - Category 1A (H360FD)
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

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