Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ultimax Diesel Conditioner

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

1.1. Product identifier

Ultimax Diesel Conditioner, REF. 3222350

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

Use of the substance/mixture

Additive for diesel-engines

1.3. Details of the supplier of the safety data sheet

Company name:	XENUM N.V.	
Street:	Steenkaaistraat 17	
Place:	B-9200 Dendermonde	
Telephone:	+32 52 223808	Telefax: +32 52 22 51 60
e-mail:	info@xenum.eu	
Contact person:	Peter Tossyn	

1.4. Emergency telephone number:

+32 479 82 08 08

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xn - Harmful, N - Dangerous for the environment
R phrases:
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.

GHS classification

Hazard categories:
Acute toxicity: Acute Tox. 4
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 3
Aspiration hazard: Asp. Tox. 1
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Toxic in contact with skin or if inhaled.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy
2-ethylhexyl nitrate
Solvent Naphtha (mineral oil), heavy arom.
Isoalkane, C11-C15

Signal word: Danger

Pictograms: GHS06-GHS08-GHS09

Hazard statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311+H331	Toxic in contact with skin or if inhaled.
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to special waste collection point.

Special labelling of certain mixtures

EUH208	Contains 3,6,9-triazaundecamethylenediamine, tetraethylenepentamine. May produce an allergic reaction. Operate if possible out of doors or in a well-ventilated place.

Additional advice on labelling

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation on the basis of hydrocarbons

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
265-150-3	Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy	55 - < 60 %
64742-48-9	Xn - Harmful R65-66	
	Asp. Tox. 1; H304	
248-363-6	2-ethylhexyl nitrate	15 - < 20 %
27247-96-7	Xn - Harmful, N - Dangerous for the environment R20/21/22-44-51-53-66	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H312 H302 H411	
01-2119539586-27		
265-198-5	Solvent Naphtha (mineral oil), heavy arom.	5 - < 10 %
64742-94-5	Xn - Harmful, N - Dangerous for the environment R51-53-65-66-67	
	Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2; H304 H336 H411	
01-2119463588-24		
292-460-6	Isoalkane, C11-C15	1 - < 5 %
90622-58-5	Xn - Harmful R65-66	
	Asp. Tox. 1; H304	
	Organometallic iron compound	1 - < 5 %
	Xn - Harmful R48/22-53	
	STOT RE 2, Aquatic Chronic 4; H373 H413	
202-049-5	naphthalene	< 1 %
91-20-3	Carc. Cat. 3, Xn - Harmful, N - Dangerous for the environment R40-22-50-53	
601-052-00-2	Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410	
202-436-9	1,2,4-trimethylbenzene	< 1 %
95-63-6	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-20-36/37/38-51-53	
601-043-00-3	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Aquatic Chronic 2; H226 H332 H319 H335 H315 H411	
203-604-4	1,3,5-trimethylbenzene, mesitylene	< 1 %
108-67-8	Xi - Irritant, N - Dangerous for the environment R10-37-51-53	
601-025-00-5	Flam. Liq. 3, STOT SE 3, Aquatic Chronic 2; H226 H335 H411	
203-986-2	3,6,9-triazaundecamethylenediamine, tetraethylenepentamine	< 1 %
112-57-2	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R21/22-34-43-51-53	
612-060-00-0	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 2; H312 H302 H314 H317 H411	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If victim is at risk of losing consciousness, position and transport on their side. Provide fresh air.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Give nothing to eat or drink. Do NOT induce vomiting.

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

The following symptoms may occur: Allergic reactions.

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

Hazards identification: Lung irritation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder. Carbon dioxide (CO_2). Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Can be released in case of fire: Carbon dioxide (CO_2). Carbon monoxide.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
Fire class B: Burning liquid or melting substances.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Keep away from unprotected people. Keep upwind. Wear personal protection equipment. (refer to chapter 8) Eliminate all ignition sources if safe to do so.

6.2. Environmental precautions

Spilled product must not leak into the ground. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: diatomaceous earth. Do not rinse down with water.

6.4. Reference to other sections

See protective measures under point 7 and 8.
Treat the recovered material as prescribed in the section on waste disposal .

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on protection against fire and explosion

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Vapours of flammable solvents can accumulate in the gas phase of closed container , especially during heat treatment. Therefore keep away from fire and sources of ignition.

Further information on handling

Avoid contact with skin and eyes.
Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs. Keep away from sources of ignition. - No smoking.

Further information on storage conditions

Suitable floor material: Solvent-proof.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64742-48-9	Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy	200	1000		TWA (8 h)	
					STEL (15 min)	
91-20-3	Naphthalene	10	50		TWA (8 h)	EU
		-	-		STEL (15 min)	EU
95-63-6	Trimethylbenzenes: 1,2,4-Trimethylbenzene	25	125		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-67-8	Trimethylbenzenes: Mesitylene	25	125		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls




Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.
Street clothing should be stored seperately from work clothing.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. gemäß DIN EN 166

Hand protection

Tested protective gloves are to be worn: nach DIN EN 374
Suitable material:
NBR (Nitrile rubber).
Thickness of glove material:: 0,45 mm; penetration time (maximum wearing period): 480 min
NR (Natural rubber (Caoutchouc), Natural latex).
Thickness of glove material:: 0,45 mm; penetration time (maximum wearing period): 10 min

CR (polychloroprenes, Chloroprene rubber).
Thickness of glove material:: 0,75 mm; penetration time (maximum wearing period): 60 min

Addtional protection measures for the hands: Before using check leak tightness / impermeability.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: insufficient absorbtion. und prolonged action.
gas filtering equipment (EN 141). A2 (brown)
Use only respiratory protection equipment with CE-symbol including four digit test number.
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

		Test method
pH-Value:	Not applicable.	
Changes in the physical state		
Melting point:	< 0 °C	
Initial boiling point and boiling range:	175 °C	DIN 53171
Flash point:	68 °C	DIN 51755
Flammability		
Solid:	Undetermined.	
Gas:	Undetermined.	
Explosive properties		
not Explosive.		
Lower explosion limits:	0,7 vol. %	
Upper explosion limits:	6 vol. %	
Ignition temperature:	180 °C	DIN 51794
Auto-ignition temperature		
Solid:	Undetermined.	
Gas:	Undetermined.	
Decomposition temperature:	Undetermined.	
Oxidizing properties		
not oxidizing.		
Vapour pressure: (at 20 °C)	0,95 hPa	DIN 51754
Density (at 20 °C):	0,84 g/cm³	DIN 51757
Water solubility: (at 20 °C)	not miscible	
Partition coefficient:	Undetermined.	
Viscosity / kinematic:	Undetermined.	
Flow time:		3 DIN EN ISO 2431
Vapour density:	Undetermined.	

Evaporation rate: (at 20 °C)	Undetermined.
Solvent content:	55,66 %

9.2. Other information

Solid content:	0,99 %

SECTION 10: Stability and reactivity

10.1. Reactivity

In case of warming: Explosion hazard.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

In case of warming: Explosion hazard.

10.4. Conditions to avoid

heat.

In case of warming: Risk of selfignition.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 500,0 mg/kg; ATE (dermal) 236,8 mg/kg; ATE (inhalative vapour) 7,86 mg/l

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64742-48-9	Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy				
	oral	LD50	> 2000 mg/kg	Rat	
	dermal	LD50	> 2000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	> 5 mg/l	Rat	
27247-96-7	2-ethylhexyl nitrate				
	oral	ATE	500 mg/kg		
	dermal	ATE	1100 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
64742-94-5	Solvent Naphtha (mineral oil), heavy arom.				
	oral	LD50	50 mg/kg	Rat	
	dermal	LD50	> 20 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	>590 mg/l	Rat	
91-20-3	naphthalene				
	oral	LD50	490 mg/kg	Rat	
	dermal	LD50 mg/kg	> 20000	Rabbit	
95-63-6	1,2,4-trimethylbenzene				
	oral	LD50	5000 mg/kg	Rat	RTECS
	inhalative (4 h) vapour	LC50	18 mg/l	Rat	RTECS
	inhalative aerosol	ATE	1,5 mg/l		
108-67-8	1,3,5-trimethylbenzene, mesitylene				
	inhalative (4 h) vapour	LC50	24 mg/l	Rat	GESTIS
112-57-2	3,6,9-triazaundecamethylenediamine, tetraethylenepentamine				
	oral	ATE	500 mg/kg		
	dermal	LD50	660 mg/kg	Rabbit	RTECS

Irritation and corrosivity

After skin contact: In case of skin irritation, seek medical treatment.
May cause respiratory irritation. Practical experience.

Sensitising effects

May cause sensitization by skin contact.

Severe effects after repeated or prolonged exposure

Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity LC50: 100-1000 g/m³ (96 h) Oncorhynchus mykiss

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] | [d]	Species	Source
64742-48-9	Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy					
	Acute fish toxicity	LC50	1000 mg/l	96 h		
	Acute algae toxicity	ErC50	1000 mg/l			
	Acute crustacea toxicity	EC50	1000 mg/l	48 h		
64742-94-5	Solvent Naphtha (mineral oil), heavy arom.					
	Acute fish toxicity	LC50	2-5 mg/l	96 h	fish	
	Acute algae toxicity	ErC50	1-3 mg/l	72 h	alge	
	Acute crustacea toxicity	EC50	3-10 mg/l	48 h	Daphnia magna	
91-20-3	naphthalene					
	Acute fish toxicity	LC50	1,99 mg/l	96 h		
	Acute crustacea toxicity	EC50	3,6 mg/l	48 h		
95-63-6	1,2,4-trimethylbenzene					
	Acute fish toxicity	LC50	7,72 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50	3,6 mg/l	48 h	Daphnia	ECOTOX Database
108-67-8	1,3,5-trimethylbenzene, mesitylene					
	Acute fish toxicity	LC50	12,5 mg/l	96 h		GESTIS
	Acute crustacea toxicity	EC50	13 mg/l	48 h		GESTIS
112-57-2	3,6,9-triazaundecamethylenediamine, tetraethylenepentamine					
	Acute fish toxicity	LC50	420 mg/l	96 h	Poecilia reticulata	
	Acute algae toxicity	ErC50	2,1 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	24,1 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

Product is not easily biodegradable.

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-94-5	Solvent Naphtha (mineral oil), heavy arom.	> 3
91-20-3	naphthalene	3,35
95-63-6	1,2,4-trimethylbenzene	3,63
108-67-8	1,3,5-trimethylbenzene, mesitylene	3,42
112-57-2	3,6,9-triazaundecamethylenediamine, tetraethylenepentamine	-1,05

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

AOX: The product contains no organically bound Halogen.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Carry out a burning of harzardous waste according to official regulations.

Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures
Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Hydrocarbons, C10, aromatics, >1% naphthalene, 2-ethylhexyl nitrate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9

Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Hydrocarbons, C10, aromatics, >1% naphthalene, 2-ethylhexyl nitrate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9

Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Hydrocarbons, C10, aromatics, >1% naphthalene, 2-ethylhexyl nitrate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9

Special Provisions:	274, 335
Limited quantity:	5 L
EmS:	F-A, S-F

Other applicable information (marine transport)

E1

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: 2-ethylhexyl nitrate, Hydrocarbons, C10, aromatics, >1% naphthalene

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 84,333 % (708,393 g/l)

Additional information

Sources of the most important data: 2001/118/EG,1999/45/EG, 91/155/EWG, 67/548/EWG, (EG) 1907/2006, (EG) 1272/2008, GefStoffV, WRMG, WHG, TRG 300, TRGS 200, TRGS 220, ADR 2013, IMDG-Code

National regulatory information

Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D):	2 - water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

10	Flammable.
20	Harmful by inhalation.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
21/22	Harmful in contact with skin and if swallowed.
22	Harmful if swallowed.
34	Causes burns.
36/37/38	Irritating to eyes, respiratory system and skin.
37	Irritating to respiratory system.
40	Limited evidence of a carcinogenic effect.
43	May cause sensitisation by skin contact.
44	Risk of explosion if heated under confinement.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50	Very toxic to aquatic organisms.
51	Toxic to aquatic organisms.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.

65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Full text of H statements referred to under Sections 2 and 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311+H331	Toxic in contact with skin or if inhaled.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.
H413	May cause long lasting harmful effects to aquatic life.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)