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

1.1. Product identifier

Product form : Mixture
Product name : Supremium Diesel
Product code : W22911

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Diesel fuel additive
Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07 GHS08 GHS09

Signal word (CLP) : Danger
Hazardous ingredients : 2-Ethylhexyl nitrate; distillates (Fischer-Tropsch), C8-26, branched and linear
Hazard statements (CLP) : H302+H332 - Harmful if swallowed or if inhaled
H304 - May be fatal if swallowed and enters airways.
H411 - Toxic to aquatic life with long lasting effects.
EUH-statements : EUH044 - Risk of explosion if heated under confinement.
EUH066 - Repeated exposure may cause skin dryness or cracking.
Precautionary statements (CLP) : P102 - Keep out of reach of children.
P405 - Store locked up.
P261 - Avoid breathing vapours.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P331 - Do NOT induce vomiting.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Ethylhexyl nitrate	(CAS-No.) 27247-96-7 (EC-No.) 248-363-6 (REACH-no) 01-2119539586-27	25 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411
distillates (Fischer-Tropsch), C8-26, branched and linear	(CAS-No.) 848301-67-7 (EC-No.) 481-740-5 (REACH-no) 01-0000020119-75	25 - 50	Asp. Tox. 1, H304
2-ethylhexan-1-ol	(CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20	2,5 - 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Hydrocarbons, C10, aromatics, <1% naphthalene	(EC-No.) 918-811-1 (REACH-no) 01-2119463583-34	2,5 - 5	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after ingestion : Headache. Abdominal pain. Harmful if swallowed. Risk of aspiration pneumonia. May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. AFFF foam. ABC-powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Flammable liquid and vapour. Take precautionary measures against static discharge.

Explosion hazard : Risk of explosion if heated under confinement.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing.

Emergency procedures : Mark the danger area. Keep upwind. Prevent flow to low areas. In confined space use self-contained breathing apparatus. Take off contaminated clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain leaking substance, pump over in suitable containers.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Meet the legal requirements. Repeated exposure may cause skin dryness or cracking. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Meet the legal requirements. Protect from sunlight. Store in a well-ventilated place. Store in a closed container.

Storage area : Meet the legal requirements. Ventilation along the floor.

Special rules on packaging : Store in a closed container. Labelling according to.

7.3. Specific end use(s)

Read label before use. Observe the label precautions. See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrocarbons, C10, aromatics, <1% naphthalene

Belgium	Limit value (mg/m³)	200 mg/m³

2-ethylhexan-1-ol (104-76-7)

EU	IOELV TWA (mg/m³)	5,4 mg/m³
EU	IOELV TWA (ppm)	1 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	110 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm

2-Ethylhexyl nitrate (27247-96-7)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,35 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	0,52 mg/kg bodyweight/day
PNEC (STP)	

2-Ethylhexyl nitrate (27247-96-7)

PNEC sewage treatment plant	10 mg/l

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

PNEC (Sediment)	
PNEC sediment (freshwater)	2,06 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,68 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

Hydrocarbons, C10, aromatics, <1% naphthalene

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	151 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	7,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	32 mg/m³
Long-term - systemic effects, dermal	7,5 mg/kg bodyweight/day

2-ethylhexan-1-ol (104-76-7)

DNEL/DMEL (Workers)	
Acute - local effects, inhalation	53,2 mg/m³
Long-term - systemic effects, dermal	23 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12,8 mg/m³
Long-term - local effects, inhalation	53,2 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	26,6 mg/m³
Long-term - systemic effects,oral	1,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,3 mg/m³
Long-term - systemic effects, dermal	11,4 mg/kg bodyweight/day
Long-term - local effects, inhalation	26,6 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,017 mg/l
PNEC aqua (marine water)	0,0017 mg/l
PNEC aqua (intermittent, freshwater)	0,17 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,284 mg/kg dwt
PNEC sediment (marine water)	0,0284 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,047 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures. Ensure good ventilation of the work station.

Personal protective equipment : Gloves. Safety glasses.

Hand protection : Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Other information : Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance	: clear.
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,438
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 71 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 870 kg/m³
Solubility	: insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: 2,5 mm²/s
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 85 %
Additional information	: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Risk of explosion if heated under confinement. Exothermic decomposition.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Harmful: may cause lung damage if swallowed

Supremium Diesel

ATE CLP (oral)	1041,667 mg/kg bodyweight
ATE CLP (dust,mist)	2,88 mg/l/4h

2-Ethylhexyl nitrate (27247-96-7)

LD50 oral rat	> 9600 mg/kg bodyweight Sprague-Dawley
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (dust,mist)	1,5 mg/l/4h

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley

Hydrocarbons, C10, aromatics, <1% naphthalene

LD50 oral rat	6318 mg/kg bodyweight Crl:CDBR
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l)	> 4,688 mg/l/4h Sprague-Dawley
ATE CLP (oral)	6318 mg/kg bodyweight

2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	3290 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	1,1 mg/l/4h
ATE CLP (oral)	3290 mg/kg bodyweight
ATE CLP (dermal)	3000 mg/kg bodyweight
ATE CLP (vapours)	1,1 mg/l/4h
ATE CLP (dust,mist)	1,1 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: This product contains hazardous components for the aquatic environment.
Ecology - water	: Toxic to aquatic life with long lasting effects.

2-Ethylhexyl nitrate (27247-96-7)

LC50 fish 1	96h 2 mg/l Brachydanio rerio
EC50 Daphnia 1	> 12,6 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	72h 1,57 mg/l Pseudokirchnerella subcapitata

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

LC50 fish 1	> 1000 mg/l @96h Pimephales promelas
EC50 Daphnia 1	> 1000 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 1000 mg/l @72h Pseudokirchneriella subcapitata
NOEC (acute)	> 1000 mg/l @48h Daphnia magna

Hydrocarbons, C10, aromatics, <1% naphthalene

LC50 fish 1	96h 2 - 5 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	48h 10 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 1 - 3 mg/l Pseudokirchneriella subcapitata

2-ethylhexan-1-ol (104-76-7)

LC50 fish 1	96h 28,2 mg/l pimephales promelas
EC50 Daphnia 1	48h 39 mg/l daphnia magna

2-ethylhexan-1-ol (104-76-7)

EC50 other aquatic organisms 1 — 72h 11,5 mg/l algae (desmodesmus subspicatus)

12.2. Persistence and degradability

2-Ethylhexyl nitrate (27247-96-7)

Persistence and degradability — Not readily biodegradable.

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

Persistence and degradability — Readily biodegradable.

2-ethylhexan-1-ol (104-76-7)

Persistence and degradability — Readily biodegradable.

12.3. Bioaccumulative potential

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

Log Pow — > 6,5 @40°C

2-ethylhexan-1-ol (104-76-7)

Bioaccumulative potential — No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

2-ethylhexan-1-ol (104-76-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code : 14 06 03* - other solvents and solvent mixtures
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate), 9, III

14.3. Transport hazard class(es)

Class (ADR) : 9

Danger labels (ADR) : 9

14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Dangerous for the environment :

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M6
Orange plates :

Special provisions (ADR) : 274, 335, 375, 601
Transport category (ADR) : 3
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
EAC code : •3Z

14.6.2. Transport by sea

EmS-No. (1) : F-A, S-F

14.6.3. Air transport

Instruction "cargo" (ICAO) : 964
Instruction "passenger" (ICAO) : 964
Instruction "passenger" - Limited quantities (ICAO) : Y964

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content : 85 %

15.1.2. National regulations

Water hazard class (WGK) : 2 - significant hazard to water

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product