Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2015 Version number 1 Revision: 15.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1

Product identifier

· Trade name: SYNTH XL 5W30

· Article number: ARD010001

· 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 Engine oil

· 1.3 Details of the supplier of the safety data sheet ·

Manufacturer/Supplier:

Vroman NV
Oudenaardestraat 49
8570 Vichte
info@ardeca-lubricants.be
0032 56 72 62 29

· Further information obtainable from: Product safety department - 0032 56 72 62 29.

· 1.4 Emergency telephone number: 0032 56 72 62 29 (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

The product is not classified according to the CLP regulation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC 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.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void ·

Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Additional information:

EUH210 Safety data sheet available on request. ·

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients · 3.2

Mixtures

· Dangerous components:

CAS: 64742-54-7 EINECS: 265-157-1 Reg.nr.: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1, H304	2.5-10%
	Interchangeable low viscosity base oil (<20,5 cSt @40 ℃) * Asp. Tox. 1, H304	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: 2215-35-2 EINECS: 218-679-9 Reg.nr.: 01-2119953275-34	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) Xi R38-41; N R51/53 Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	0.1-1.0%
CAS: 84605-29-8 EINECS: 283-392-8 Reg.nr.: 01-2119493626-26	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts Xi R38-41; N R51/53 Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	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%

· 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, 72623-85-9, 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
· General information: No special measures required.
· 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 If swallowed or in case of vomiting, danger of entering the lungs.

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.

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· 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 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
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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
No special measures required.
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.
· 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/m³ Long-term value: 10 mg/m³

· 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.

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· 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 trough 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:	Liquid
Colour:	Brown
· Odour:	Characteristic
· Change in condition	
Boiling point/Boiling range:	Undetermined.
· Drip point:	
Pour point	-39 ℃ (ASTM D97)
· Flash point:	> 110 ℃
· 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 ℃:	0.848 g/cm³
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined. ·

Viscosity:

40 ℃	69 mm²/s (ASTM D445)

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· 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:
· Primary irritant effect:
· on the skin: No irritant effect.
· on the eye: No irritating effect.
· Sensitisation: No sensitising effects known.
· 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.
· 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.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity: No further relevant information available.
· 12.2 Persistence and degradability No further relevant information available. ·
Other information: The product is difficultly biodegradable.
· 12.3 Bioaccumulative potential No further relevant information available.
· 12.4 Mobility in soil No further relevant information available.
· Ecotoxical effects:
· Remark:
This material is not 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:
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.
· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

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· 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
· 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 1 (Self-assessment): slightly 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
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.

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H318 Causes serious eye damage.
H331 Toxic if inhaled.
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.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
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.
R53 May cause long-term adverse effects in the aquatic environment.

· Department issuing MSDS: Product safety department. ·
Contact: Product safety department
· Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
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 - AcuteHazard, 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 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4
· Sources
67/548/EEC
99/45/EEC
EC/453-2010