



Safety Data Sheet According to 1907/2006/EC, Article 31

Printing Date 25.03.2022 - Revision 25.03.2022

1. Identification of Product and Company's Name:

PRODUCT DETAIL

Trade Name: OWS Synthor SAE 10W-30

Article Number: 2510

Application of the substance / the preparation:

Manufacturer / Supplier:

Our Workshop System (S) Pte Ltd
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Further information obtainable from:

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2. Hazards identifications:

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2 Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards

The Substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the candidate list according to article 59 of REACH.

3. Composition/information on ingredients:

3.2 Mixtures 85% Group 3 15% Additives

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	5 - < 10%
	276-738-4 649-483-00-5 01-2119474889-13	
	Asp. Tox. 1; H304	
147880-09-9	Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopoly isobutenyl derivs.	1 - < 5%
	Aquatic Chronic 4: H413	
36878-20-3	Bis (nonylphenyl)amine	1 - < 5%
	253-249-4 01-2119488911-28	
	Aquatic Chronic 4; H413	
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	< 0.1%
	310-154-3 604-092-00-9 01-2119513207-49	
	Repr. 2, Skin Corr. 1C, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H361 H314 H400 H410	

Full Text of H and EUH statements: see section 16.

4. First aid measures:

4.1 Description of first aid measures

General information	In Case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
After inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.
After contact with skin	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.
After contact with eyes	Rinse immediately carefully and thoroughly with water. Let water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.
After ingestion	Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice

5. Fire fighting measures:

5.1 Extinguishing media

Suitable extinguishing media

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂) Sulphur dioxide (SO₂)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8).

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

No information available.

7. Handling and storage:

7.1 Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Avoid formation of oil dust.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Fire class B

Further information on handling

Do not breathe vapour/aerosol.

Avoid contact with eyes and skin.

Advises on general occupational hygiene: See section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Advice on storage compatibility

Do not store together with: Gas. Explosives. Radioactive substances. Infectious substances

Further information on storage conditions

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

7.3 Specific end use(s)

refer to chapter 1.

8. Exposure controls/personal protection:

8.1 Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			
Worker DNEL, long-term		inhalation	systemic	1.762 mg/m3
Worker DNEL, long-term		dermal	systemic	0.25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.79 mg/m3
Consumer DNEL, long-term		dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.075

PNEC values

CAS No	Substance	Value
Environmental compartment		
36878-20-3	Bis (nonylphenyl)amine	
Freshwater		0.1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine Water		0,01 mg/l
Marine Water (intermittent releases)		13200 mg/kg
Freshwater sediment		132000 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		263000 mg/kg
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	
Freshwater (intermittent releases)		0.000074 mg/l
Marine water		0.000074 mg/l
Freshwater sediment		0.26 mg/kg
Marine sediment		0.026 mg/kg
Soil		0.118 mg/kg

Additional advice on limit values

air limit values:

Possibility of exposure to Aerosol

Limit value = 5 mg/ m3 - Source: ACGIH



Appropriate engineering controls

Provide adequate ventilation.

Protective and hygiene measures

Clean skin thoroughly after working.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Oil-resistant and hardly inflammable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-aerosol or mist formation

-exceeding exposure limit values

Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No information available.

9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: No information available

Odour: characteristic

Test method

No Information available.

pH-Value:
Changes in the physical state

Melting point:

No information available.

Initial boiling point and boiling range:

No information available.

Sublimation point:

No information available.

Softening point:

No information available.

Pour point:

-42 °C

Flash point:

234 °C COC

Sustaining combustion:

No data available

Flammability

Solid:

No information available.

Gas:

No information available.

Explosive properties

none

Lower explosion limits:

No information available.

Upper explosion limits:

No information available.

Ignition temperature:

No information available.

Oxidizing properties

Vapour pressure:

(at 20 °C)

No information available.

Vapour pressure:

(at 50 °C)

No information available.

Density (at 15 °C):

0,8745 g/cm³ DIN 51757

Solubility in other solvents	
Partition coefficient:	No information available.
Viscosity / dynamic:	No information available.
Viscosity / kinematic: (at 40 °C)	74,20 mm ² /s DIN EN ISO 3104
Flow time:	No information available.
Vapour density:	No information available.
Evaporation rate:	No information available.
Solvent separation test:	No information available.
Solvent content:	No information available.
Other information	
Solid content:	No information available.

10. Stability and reactivity:

- 10.1 Reactivity**
No information available.
- 10.2 Chemical stability**
Stable at ambient temperature.
- 10.3 Possibility of hazardous reactions**
No hazardous reactions known
- 10.4 Conditions to avoid**
No information available.
- 10.5 Incompatible materials**
Oxidising agent, strong
- 10.6 Hazardous decomposition products**
No Hazardous decomposition products known.

11. Toxicological information:

- 11.1 Information on toxicological effects**
Toxicocinetics, metabolism and distribution
No information available.
- Acute toxicity
Based on available data, the classification criteria are not met.

CAS No	Chemical Name			
Exposure	Exposure route	Dose	Species	Source
36878-20-3	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			
	oral	LD50 >5000 mg/kg	Rat (OECD 401)	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rabbit (OECD 402)	ECHA Dossier
	inhalative (4 h) aerosol	LD50 >5,53 mg/Kg	Rat (OECD 403)	ECHA Dossier
36878-20-3	Bis(nonylphenyl)amine			
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			
	oral	LD50 2100 mg/kg	Rat (OECD 401)	ECHA Dossier
	dermal	LD50 15000 mg/kg	Rabbit (OECD 402)	ECHA Dossier

- Irritation and corrosivity
Based on available data, the classification criteria are not met.
- Sensitising effects
Based on available data, the classification criteria are not met.
- Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
- Bis(nonylphenyl)amine:
Developmental toxicity/teratogenicity:
Species: Rat (Wistar)
Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)
Results: NOAEL ≥ 500 mg/kg
literature information: ECHA Dossier

STOT-single exposure

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

STOT-repeated exposure

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

Bis(nonylphenyl)amine:

Subchronic oral toxicity:

Exposure time: 90d

Species: Han Wistar Rat.

Method: OECD Guideline 408

Result: LOAEL = 100 mg/kg

literature information: ECHA Dossier

Aspiration hazard

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

Practical experience

Other observations

Frequent contact specially if dried out may cause skin and eye irritations

12. Ecological information:

12.1 Toxicity

CAS No	Chemical Name				
	Aquatic toxicity	Dose	[h/lld]	Species	Source
36878-20-3	Bis(nonylphenyl)amine				
	Acute fish toxicity	LC50 >100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio) (OECD 20)	ECHA Dossier
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched				
	Acute fish toxicity	ILC50 mg/l EL 50 = 40	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50 (0,36) mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Crustacea toxicity	NOEC 0,0037mg/l	21 d	daphnia magna (OECD 211)	ECHA Dossier

12.2 Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS No	Chemical name	Value	d	Source
	Method			
	Evaluation			
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	2-4%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
36878-20-3	Bis(nonylphenyl)amine			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	1%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	25%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
21158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	7,1

CAS No	Chemical name	BCF
121158-58-5	phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched; phenol, 4-dodecyl-, branched	2,9

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

13. Disposal considerations:**13.1 Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste disposal number of contaminated packaging

150110

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated Packaging

handle contaminated packages in the same way as the substance itself.

14. Transport information:**Land Transport (ADR/RID)**

- 14.1 UN number:** No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4 Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1 UN number:** No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4 Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1 UN number:** No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4 Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1 UN number:** No dangerous good in sense of this transport regulation.
14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3 Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4 Packing group: No dangerous good in sense of this transport regulation.

14.5 Incompatible materials

ENVIRONMENTALLY HAZARDOUS: no

14.6 Special precautions for user

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

15. Regulatory Information:

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III):

Additional information

Observe in addition any national regulations!

National regulatory information

Water contaminating class (D): 2 - water contaminating

Additional information

none

15.2 Chemical Safety Assessment

not applicable.

16. Other Information:

Changes

Rev. : 1,0 - 13.01.2017

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

International Carriage of Dangerous Goods by Road)

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

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.

Further Information

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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