Safety Data Sheet
SPORT SAE 5W/40

Safety Data Sheet dated 17/1/2023, version 1

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

1.1. Product identifier
Mixture identification:
Trade name: SPORT SAE 5W/40

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
PC-TEC-11 Lubricants, greases, release agents

1.3. Details of the supplier of the safety data sheet
Company:
NILS S.p.A.
Via Stazione, 30
39014 Postal (BZ)

e-mail: nils@nils.it
www.nils.eu
Tel. +39 0473 29 24 00
Fax +39 0473 29 12 44
Competent person responsible for the safety data sheet:
schedasicurezza@nils.it
1.4. Emergency telephone number
CAV "Ospedale Pediatrico Bambino Gesù" - Roma - Tel. +39 06 6859 37 26

CAV "Azienda Ospedaliera Università di Foggia" - Foggia - Tel. 800 183 459

CAV "Azienda Ospedaliera A. Cardarelli" - Napoli - Tel. +39 081 545 33 33

CAV Policlinico "Umberto I" - Roma - Tel. +39 06 4997 80 00

CAV Policlinico "A. Gemelli" - Roma - Tel. +39 06 305 43 43

CAV Aziedna Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 794 78 19

CAV Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24 444

CAV Ospedale Niguarda - Milano - +39 02 66 10 10 29

CAV Azienda Ospedaliera Papa Giovanni XXIII - Bergamo - Tel. 800 88 33 00

CAV Centro Antiveleni Veneto - Verona - Tel. 800 011 858
Tel. +39 0473 29 24 00
Fax +39 0473 29 12 44

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.
Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains Calcium long chain alkaryl sulfonate. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 1% - < 2,5%	Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives	CAS: 84605-20-9 EC: 617-593-2	4.1/C4 Aquatic Chronic 4 H413
>= 1% - < 2,5%	Phosphorodithioic acid, mixed O,O-bis(sec-Bu & 1,3-dimethylbutyl) esters, zinc salts	CAS: 68784-31-6 EC: 272-238-5	3.3/1 Eye Dam. 1 H318 4.1/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C >= 10%: Eye Dam. 1 H318
>= 0,25% - < 0,3%	Calcium long chain alkaryl sulfonate	CAS: 722503-69-7 EC: 682-812-0	3.4.2/1 Skin Sens. 1 H317 4.1/C4 Aquatic Chronic 4 H413
>= 0,1% - < 0,25%	Phenol, dodecyl-, branched	Index number: 604-092-00-9 CAS: 121158-58-5 EC: 310-154-3	3.2/1C Skin Corr. 1C H314 3.3/1 Eye Dam. 1 H318 3.7/1B Repr. 1B H360 4.1/A1 Aquatic Acute 1 H400 M=10. 4.1/C1 Aquatic Chronic 1 H410 M=10.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Wash with plenty of water and soap.
In case of eyes contact:
Remove contact lenses, if present and easy to do. Continue rinsing.
Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief.
OBTAIN A MEDICAL EXAMINATION.
In case of Ingestion:
If swallowed, rinse mouth with water (only if the person is conscious).
Do NOT induce vomiting.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
Immediately call a doctor.
4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.
If in doubt or if symptoms occur, consult a doctor.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
In case of fire, use a dry powder fire extinguisher to extinguish.
Carbon dioxide (CO2).
Sand
Extinguishing media which must not be used for safety reasons:
Jets of water
5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products:
Carbon monoxide (CO)
Carbon dioxide (CO2)
5.3. Advice for firefighters
Avoid inhaling the fumes.
Coordinate fire-fighting measures in the surrounding areas.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non emergency personnel:
Remove persons to safety.
For emergency responders:
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For containment:
Covering of drainage systems.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
Collect with absorbent substances (sand, kieselguhr, diatomite, acid binder, universal binder).

For cleaning up:
Collect mechanically and dispose of in adequate containers.
Ensure sufficient ventilation of the place affected by the leak.

6.4. Reference to other sections

Hazardous combustion products: see Sect. 5
Precautions for safe handling: see Sect. 7
Individual protection measures: see Sect. 8
Incompatible materials: see Sect. 10
Enviornmental precautions: see Sect. 12
Disposal considerations: see Sect. 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use localized ventilation system.
Advice on general occupational hygiene:
Wash hands after use
Contamined clothing should be changed before entering eating areas.
Never put chemicals in containers that are usually used for food or drink.

7.2. Conditions for safe storage, including any incompatibilities

No hazardous reaction if properly handled and used.

Susceptible to extremely low or high temperatures.

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Storage class according to TRGS 510 10

7.3. Specific end use(s)

PC-TEC-11 Lubricants, greases, release agents

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

Phosphorodithioic acid, mixed O,O-bis(sec-Bu & 1,3-dimethylbutyl) esters, zinc salts - CAS: 68784-31-6

Worker Industry: 2.93 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 496.4 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 10.42 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 100 mg/kg bw/day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Phenol, dodecyl-, branched - CAS: 121158-58-5

Worker Industry: 44.18 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 0.25 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 166 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

Phosphorodithioic acid, mixed O,O-bis(sec-Bu & 1,3-dimethylbutyl) esters, zinc salts - CAS: 68784-31-6

Target: Freshwater - Value: 4 µg/l - Type of hazard: Short term (isolated case)
Target: Marine water - Value: 4.6 µg/l - Type of hazard: Short term (isolated case)
Target: Microorganisms in sewage treatments - Value: 3.8 mg/l - Type of hazard: Short term (isolated case)
Target: Freshwater sediments - Value: 0.07 mg/kg - Type of hazard: Short term (isolated case)
Target: Marine water sediments - Value: 0.007 mg/kg - Type of hazard: Short term (isolated case)
Target: Soil (agricultural) - Value: 0.055 mg/kg - Type of hazard: Short term (isolated case)

Phenol, dodecyl-, branched - CAS: 121158-58-5

Target: Freshwater - Value: 0.074 µg/l - Type of hazard: Short term (isolated case)
Target: Marine water - Value: 0.007 µg/l - Type of hazard: Short term (isolated case)
Target: Microorganisms in sewage treatments - Value: 100 mg/l - Type of hazard: Short term (isolated case)
Target: Freshwater sediments - Value: 0.226 mg/kg - Type of hazard: Short term (isolated case)
Target: Marine water sediments - Value: 0.027 mg/kg - Type of hazard: Short term (isolated case)
Target: Soil (agricultural) - Value: 0.118 mg/kg - Type of hazard: Short term (isolated case)

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.
Basket eye glasses.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Only CE-marked protective gloves tested according to EN 374 may be worn when working with chemicals. Protective gloves must be selected for each workplace depending on the concentration and type of harmful substances after consultation with the supplier. Establish a healing period for skin regeneration. Preventive protection of the skin is recommended (protective creams/pomades). Wash hands thoroughly after use.
NBR (nitrile rubber).
0.425 mm
Breakthrough time:
240-480 min
NBR (nitrile rubber).

0.12 mm
Breakthrough time:
10-30 min

Respiratory protection:
Not needed for normal use.

Thermal Hazards:
None

Environmental exposure controls:
Use appropriate container to avoid environmental contamination.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Brown	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Pour point	N.A.	--	--
Drop point	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>210 ° C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	N.A.	--	--
Kinematic viscosity:	88	--	40 °C
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information
No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity
Regarding incompatibilities: see under "Conditions to avoid" and "Incompatible materials".

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
No dangerous reactions are known.

10.4. Conditions to avoid
information not available

10.5. Incompatible materials
Oxidizing agents

10.6. Hazardous decomposition products

No hazardous decomposition products are known of.
Hazardous combustion products:
See subsection 5.2

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
SPORT SAE 5W/40
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
Phosphorodithioic acid, mixed O,O-bis(sec-Bu & 1,3-dimethylbutyl) esters, zinc salts - CAS: 68784-31-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Phenol, dodecyl-, branched - CAS: 121158-58-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2100 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 15000 mg/kg

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
SPORT SAE 5W/40
The product is classified: Aquatic Chronic 3 - H412
Phenol, dodecyl-, branched - CAS: 121158-58-5
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 0.008 mg/l - Duration h: 21 d
12.2. Persistence and degradability
Phenol, dodecyl-, branched - CAS: 121158-58-5
Biodegradability: Non-readily biodegradable - Test: CO2 production - Duration h: 28d - %: 25% - Notes: ECHA
12.3. Bioaccumulative potential
Phenol, dodecyl-, branched - CAS: 121158-58-5
Test: BCF - Bioconcentrantion factor 289
Test: Log Kow 7.14
12.4. Mobility in soil
N.A.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste Code: 130205
Dispose of according to Directive (EC) n. 2008/98 on waste and hazardous waste. Recycle in compliance with official regulations.

SECTION 14: Transport information

14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name
N.A.
14.3. Transport hazard class(es)
N.A.
14.4. Packing group
N.A.
14.5. Environmental hazards
N.A.
14.6. Special precautions for user
N.A.
14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
Restriction 30
Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1
Product belongs to category: E2

National legislation

Limitations for workers: Respect the employment limits according to Directive 94/33/EC on the protection of young people at work.

German Water Hazard Class: 2 - Water pollutant.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

COV(%): 0

Full text of phrases referred to in Section 3:

H413 May cause long lasting harmful effects to aquatic life.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.
H360 May damage fertility or the unborn child in contact with skin and if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.