Safety Data Sheet dated 5/10/2022, version 1

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

1.1. Product identifier
Mixture identification:
Trade name: RACE 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)
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

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

Restricted to professional users.

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
>= 25% - < 30%	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified	Index number: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1	3.10/1 Asp. Tox. 1 H304 DECLL (CLP)*
>= 5% - < 7%	Lubricating oils (petroleum),C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	Index number: 649-483-00-5 CAS: 72623-87-1 EC: 276-738-4	3.10/1 Asp. Tox. 1 H304 DECLL (CLP)*
>= 1% - < 2,5%	Mineral Oils (mixture)		3.10/1 Asp. Tox. 1 H304 DECLL (CLP)*
>= 0,25% - < 0,3%	Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	CAS: 36878-20-3 EC: 253-249-4	4.1/C4 Aquatic Chronic 4 H413

*DECLL (CLP): Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 (“Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method” Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
The product does not usually irritate the skin.

In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
In case of Ingestion:
Call a doctor if you feel unwell.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
If experiencing respiratory symptoms: Call a doctor.
4.2. Most important symptoms and effects, both acute and delayed
No available information.
4.3. Indication of any immediate medical attention and special treatment needed
Treatment:
No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Adapt fire-fighting measures to specific conditions.

Extinguishing media which must not be used for safety reasons:
None in particular.
5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
5.3. Advice for firefighters
Coordinate fire-fighting measures in the surrounding areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non emergency personnel:
Wear personal protection equipment.
Remove persons to safety.
See protective measures under Sect. 7 and 8.
For emergency responders:
Wear personal protection equipment.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
6.3. Methods and material for containment and cleaning up
For containment:
Collect with absorbent substances (sand, kieselguhr, diatomite, acid binder, universal binder).

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
Avoid contact with skin and eyes, inhalation of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Keep away from food, drink and feed.
Wash hands before breaks and at the end of work.

Avoid breathing fume/gas/mist/vapours/spray.
7.2. Conditions for safe storage, including any incompatibilities
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
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified - CAS: 64742-54-7
- OEL Type: EU - TWA: 5 mg/m3
DNEL Exposure Limit Values
Lubricating oils (petroleum),C20-50, hydrotreated neutral oil-based; Baseoil - unspecified - CAS: 72623-87-1
Worker Professional: 5.4 mg/m3/8h - Consumer: 1.2 mg/m3/24h - Exposure: Human Inhalation - Frequency: Long Term, local effects
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3
Worker Professional: 5 SDS8.1_8 - Consumer: 2.5 SDS8.1_8 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.25 SDS8.1_8 - Exposure: Human Oral - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3
Target: Freshwater - Value: 0.1 mg/l
Target: Freshwater - Value: 0.01 mg/l
Target: Reference values for water, intermittent release - Value: 1 mg/l
Target: Microorganisms in sewage treatments - Value: 1 mg/l
Target: Freshwater sediments - Value: 132000 mg/kg
Target: Marine water sediments - Value: 13200 mg/kg
Target: Soil - Value: 263000 mg/kg
8.2. Exposure controls
Eye protection:
Eye glasses.
Protection for skin:

Overall.

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.

Not needed for normal use.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Combination filter conforming to EN 14387, type A-P2

Thermal Hazards:

None

Environmental exposure controls:

None

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:	> 300 ° C	DIN EN ISO 3405	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	> 180 ° C	--	--
Auto-ignition temperature:	N.A.	--	It does not spontaneously ignite.
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	77	--	40 °C
Solubility in water:		--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.843 kg/dm3	ASTM D 4052	20 °C
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

No data available

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
no information available
10.6. Hazardous decomposition products
No hazardous decomposition products are known of.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
RACE 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:
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified - CAS: 64742-54-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 5.53 mg/l - Duration: 4h
Lubricating oils (petroleum),C20-50, hydrotreated neutral oil-based; Baseoil - unspecified - CAS: 72623-87-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000-5000 mg/kg
Test: NOAEL (subac) - Route: Skin - Species: Mouse 150 mg/kg/24h

Test: NOAEL (subac) - Route: Skin - Species: Rat 30-2000 mg/kg/24h
Test: NOAEL (subac) - Route: Skin - Species: Rabbit 1000 mg/kg/24h
Test: LOAEL - Route: Oral - Species: Rat 125 mg/kg/24h
Test: LC50 - Route: Inhalation - Species: Rat 2.18-5.53 mg/l - Duration: 1 d
Test: NOEC - Route: Inhalation - Species: Rat 220 mg/m3

Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg
Test: NOEC - Route: Oral - Species: Rat 100 mg/kg/24h
Test: LD50 - Route: Skin - Species: Rat 2000 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.

RACE SAE 5W/40

Not classified for environmental hazards
Based on available data, the classification criteria are not met

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified - CAS: 64742-54-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48 h
Endpoint: NOEC - Species: Fish 1000 mg/l
Endpoint: NOEC - Species: Daphnia 10 mg/l
Endpoint: NOEC - Species: Algae 100 mg/l

Lubricating oils (petroleum),C20-50, hydrotreated neutral oil-based; Baseoil - unspecified - CAS: 72623-87-1

a) Aquatic acute toxicity:

Endpoint: LL50 - Species: Daphnia 10000 mg/l - Duration h: 24 h - Notes: same concentration at 48h, 72h and 96h
Endpoint: LL50 - Species: Fish 100 mg/l - Duration h: 96 h
Endpoint: EL50 - Species: Daphnia 10000 mg/l - Duration h: 48 h

Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 100 mg/l - Duration h: 96 h
Endpoint: LC0 - Species: Fish 58 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Daphnia 100 mg/l - Duration h: 24 h
Endpoint: EC50 - Species: Algae 870 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Algae 100-600 mg/l - Duration h: 72 h
Endpoint: EC50 - Species: Daphnia 100 mg/l - Duration h: 48 h
Endpoint: NOEC - Species: Algae 10-100 mg/l - Duration h: 72 h
Endpoint: NOEC - Species: Algae 33 mg/l - Duration h: 96 h

12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified - CAS: 64742-54-7

Biodegradability: Non-readily biodegradable - Duration h: 28d - %: 31%

Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3

Test: OECD 301 - Duration h: 28d - %: 1%

12.3. Bioaccumulative potential

Reaction products of Benzeneamine, N-phenyl- with nonene (branched) - CAS: 36878-20-3

Test: Log Kow 7.5-11.7

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: 130206
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:

No restriction.

Restrictions related to the substances contained:

Restriction 28

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

None

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: 1 - Slightly water pollutant.

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

COV(%): 0.00

Full text of phrases referred to in Section 3:

H304 May be fatal if swallowed and enters airways.
H413 May cause long lasting harmful effects to aquatic life.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

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.