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: 100 DEGREASE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Detergent
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:
EUH210 Safety data sheet available on request.
EUH208 Contains 2-methyl-2H-isothiazol-3-one. 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%
Other Hazards:
According to the available data, the product does not contain PBT or vPvB substances in a proportion >= 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%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: CAS: EC:	603-064-00-3 107-98-2 203-539-1	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336
< 0,1%	2-methyl-2H-isothiazol-3-one	CAS: EC:	2682-20-4 220-239-6	3.1/2/Inhal Acute Tox. 2 H330 4.1/C1 Aquatic Chronic 1 H410 M=1. 3.1/3/Oral Acute Tox. 3 H301 3.1/3/Dermal Acute Tox. 3 H311 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 M=1. EUH071 Specific Concentration Limits: C >= 0,0015%: Skin Sens. 1A H317

Other information:

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Take off contaminated clothing and wash it before reuse.
Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.
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.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of Ingestion:
Call a doctor.
Do not administer anything by mouth if the subject is unconscious and unless authorised by a doctor.

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
None
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:
Carbon dioxide (CO2).
In case of fire, use a foam fire extinguisher to extinguish.
In case of fire, use a dry powder fire extinguisher to extinguish.
Water spray

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.
5.3. Advice for firefighters
Keep containers cool with water spray.
Airline Hood or Mask + Gloves + Full suit + Boots
Use fire fighter's clothing conforming to European standard EN469.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non emergency personnel:
See protective measures under point 7 and 8.
For emergency responders:
Follow the same instructions as for those who do not take action directly.

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 cleaning up:
Collect with sand or other non-combustible absorbent/inert material and place in suitable containers (see Section 10) for subsequent disposal.

Treat the displaced material according to indications in Section 13 - "Information for disposal".
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
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
The presence of heavier-than-air flammable substances or mixtures is particularly likely in non-ventilated rooms located deep underground, such as cellars, ducts, pits, canals and wells.

Avoid accumulating electrostatic charge.
Advice on general occupational hygiene:
Do not eat, drink or smoke when using this product.
Contamined clothing should be changed before entering eating areas.
7.2. Conditions for safe storage, including any incompatibilities
Do not pour the product into other containers. Always use the original container.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
See subsection 10.5
7.3. Specific end use(s)
Detergent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- OEL Type: ACGIH - TWA(8h): 184 mg/m3, 50 ppm - STEL(15min): 368 mg/m3, 100 ppm
- OEL Type: National - TWA(8h): 375 mg/m3, 100 ppm - STEL(15min): 568 mg/m3, 150 ppm

DNEL Exposure Limit Values
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Professional: 369 mg/m3 - Consumer: 43.9 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 183 mg/kg bw/day - Consumer: 78 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 553.5 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 553.5 mg/m3 - Frequency: Short Term, systemic effects

2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4

Consumer: 0.053 mg/kg bw/day - Exposure: Human Oral - Frequency: Short Term, systemic effects
Consumer: 0.027 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 0.043 mg/m3 - Consumer: 0.043 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
Worker Professional: 0.021 mg/m3 - Consumer: 0.021 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Freshwater - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: Freshwater sediments - Value: 52.3 mg/kg sediment dw
Target: Marine water sediments - Value: 5.2 mg/kg sediment dw
Target: Soil (agricultural) - Value: 4.59 mg/kg soil dw
Target: Reference values for water, intermittent release - Value: 100 mg/l

2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4

Target: Freshwater - Value: 0.00339 mg/l - Type of hazard: Short term (isolated case)
Target: Marine water - Value: 0.00339 mg/l - Type of hazard: Short term (isolated case)
Target: Reference values for water, intermittent release - Value: 0.00339 mg/l - Type of hazard: Short term (isolated case)
Target: Microorganisms in sewage treatments - Value: 0.23 mg/l

8.2. Exposure controls

Eye protection:

Basket eye glasses.

Protection for skin:

Wear long sleeved work clothes and category II safety footwear for professional use (ref. Regulation 2016/425 and ISO 20344).
Wash with water and soap after removing protective clothing.

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:

In case the substance considered is odourless or its odour threshold is higher than the relevant TLV-TWA, and in case of emergency,
The class (1, 2 or 3) should be selected according to the limit concentration of use (ref. standard EN 14387).
Mask with filter "A" , brown colour
Use respiratory protection where ventilation is insufficient or exposure is prolonged.
Fresh-air tube device (DIN EN 138).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

If local air suction is impossible or insufficient, good ventilation of the workplace should be ensured.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	light blue	--	--
Odour:	Scented	--	--
Melting point/freezing point:	N.A.	--	--
Pour point	N.A.	--	--
Drop point	N.A.	--	--
Boiling point or initial boiling point and boiling range:	> 100 ° C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	10,5	ASTM E 70	20 °C
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Soluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.01 kg/dm3	ASTM D 1298	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

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

100 DEGREASE
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:
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 4016 mg/kg bw
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg bw
Test: LC50 - Route: Inhalation - Species: Rat > 25.8 mg/l - Duration: 6h
2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4
a) acute toxicity:
Test: LD50 - Route: Skin = 242 mg/kg
Test: LD50 - Route: Oral = 120 mg/kg
Test: LC50 - Route: Inhalation Mist = 0.34 ppm - Duration: 4h

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.
100 DEGREASE
Not classified for environmental hazards
Based on available data, the classification criteria are not met
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 6812 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Daphnia > 21000 mg/l - Duration h: 48 h

2-methyl-2H-isothiazol-3-one - CAS: 2682-20-4

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 4.77 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Algae and cyanobacteria = 0.103 mg/l - Duration h: 72 h
Endpoint: LC10 - Species: Fish = 4.93 mg/l - Duration h: 96 h
Endpoint: EC10 - Species: Algae and cyanobacteria = 0.0503 mg/l - Duration h: 72 h

b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish = 4.93 mg/l
Endpoint: NOEC - Species: Crustacea = 0.0442 mg/l

12.2. Persistence and degradability

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Biodegradability: Readily biodegradable - Duration h: 28d - %: 96%

12.3. Bioaccumulative potential

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Test: Log Kow -49

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

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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 40
Restrictions related to the substances contained:
No restriction.

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.

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

SECTION 16: Other information

COV(%): 1.25
COV(g/l): 12.61

Full text of phrases referred to in Section 3:
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H330 Fatal if inhaled.
H410 Very toxic to aquatic life with long lasting effects.
H301 Toxic if swallowed.

H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
EUH071 Corrosive to the respiratory tract.
H317 May cause an allergic skin reaction.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

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.