Safety Data Sheet dated 22/3/2023, version 1

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

1.1. Product identifier
Mixture identification:
Trade name: UNI LUBE SPRAY

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
PC-TEC-11 (EuPCS)
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)
Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.
Warning, STOT SE 3, May cause drowsiness or dizziness.

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:
H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics. May produce an allergic reaction.

Contains
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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:
Explosive/flammable mixtures may form with insufficient ventilation and/or during use.

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
>= 30% - < 40%	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	CAS: 64742-49-0 EC: 920-750-0 REACH No.: 01-21194738 51-33	2.6/2 Flam. Liq. 2 H225 3.8/3 STOT SE 3 H336 3.10/1 Asp. Tox. 1 H304 4.1/C2 Aquatic Chronic 2 H411 EUH066

>= 25% - < 30%	butane	Index number: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	2.2/1 Flam. Gas 1 H220 2.5/L Press Gas (Liq.) H280
>= 20% - < 25%	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	EC: 934-956-3 REACH No.: 01-2119827000-58	3.10/1 Asp. Tox. 1 H304
>= 12,5% - < 15%	propane	Index number: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	2.2/1 Flam. Gas 1 H220 2.5/L Press Gas (Liq.) H280
>= 3% - < 5%	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC: 918-481-9 REACH No.: 01-2119457273-39	3.10/1 Asp. Tox. 1 H304 EUH066
< 0,1%	Calcium bis(dinonylnaphthalene sulphonate)	CAS: 57855-77-3 EC: 260-991-2	3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.4.2/1 Skin Sens. 1 H317 4.1/C4 Aquatic Chronic 4 H413

Other information:
DMSO extract < 3% (IP 346)

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Wash with plenty of water and soap.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Provide eyewash stations.

In case of Ingestion:
If swallowed, rinse mouth with water (only if the person is conscious).
Aspiration hazard
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
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
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
Treat symptomatically.

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.
Extinguishing media which must not be used for safety reasons:
Water.

5.2. Special hazards arising from the substance or mixture
Extremely flammable aerosol.
Pressurized container: may burst if heated.
Vapours can form an explosive mixture with air.

5.3. Advice for firefighters
Use suitable breathing apparatus .
Use Self-Contained Breathing Apparatus (SCBA) with gas-tight suit.
Keep containers cool with water spray.
Reduce gases/vapours/mists with water spray.

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 all sources of ignition.
Provide adequate ventilation.
Do not breathe in the gases/fumes/vapours/aerosols.
Do not get in eyes, on skin, or on clothing.
Use appropriate respiratory protection.
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).

For cleaning up:
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
Do not pierce or burn, even after use.
Exercise the greatest care when handling or opening the container.
Use localized ventilation system.

Do not breathe in the gases/fumes/vapours/aerosols.
Do not spray on a naked flame or any incandescent material.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Keep away from sources of ignition - No smoking.
Avoid accumulating electrostatic charge.
Vapours can form an explosive mixture with air.

Advice on general occupational hygiene:
Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of work.

Wash face, hands and potentially exposed skin surface thoroughly after handling.
Rinse skin with shower.
Do not eat, drink, smoke or sniff tobacco in the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.
Use localized ventilation system.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
Oxidizing agents, oxygen-rich materials, combustible materials.
Pyrophoric or self-heating substances

Instructions as regards storage premises:
Cool and adequately ventilated.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Storage class according to TRGS 510 2B (Aerosolpackungen und Feuerzeuge)

7.3. Specific end use(s)

PC-TEC-11 (EuPCS)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

butane - CAS: 106-97-8
- OEL Type: TRGS 900 - TWA: 1800 mg/m3, 1000 ppm - Notes: 4(II)

DNEL Exposure Limit Values

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0
Worker Professional: 773 mg/kg bw/day - Consumer: 699 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 2035 - Consumer: 608 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 699 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Consumer: 300 SDS8.1_8 - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 900 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 300 SDS8.1_8 - Consumer: 300 SDS8.1_8 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Wear eye/face protection.

Protective glasses (mask-shaped) according to DIN EN 166

Protection for skin:

Wear anti-static footwear and 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.

NBR (nitrile rubber).

0.4 mm

FKM (fluoro rubber).

0.7 mm

Breakthrough time:

>= 480 min

Respiratory protection:

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

Mask with filter "A" , brown colour

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

Provide eyewash stations.

Do not breathe in the gases/fumes/vapours/aerosols.

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:	Transparent	--	--
Odour:	of: Mineral oil	--	--
Melting point/freezing point:	N.A.	--	--
Pour point	N.A.	--	--
Drop point	N.A.	--	--
Boiling point or initial boiling point and boiling range:	< -20 ° C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	< -20 ° C	--	--
Auto-ignition temperature:	> 200 ° C	--	--
Decomposition temperature:	N.A.	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	almost insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--

Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.673 kg/dm3	Calculation method	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes**
Explosive properties:	0.5 vol% - 10.9 vol%	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Extremely flammable aerosol.
Pressurized container: may burst if heated.
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Vapours can form an explosive mixture with air.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
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:
UNI LUBE SPRAY
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
The product is classified: STOT SE 3 H336
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:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2800-3100 mg/kg - Source: Study Report (1977)
Test: LC50 - Route: Inhalation Vapour - Species: Rat = 16 mg/l - Duration: 4h - Source: Toxicology and Applied Pharmacology 32 - Notes: OECD 403

butane - CAS: 106-97-8
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat 659 g/m3
Test: LC50 - Route: Inhalation - Species: Mouse 680 g/m3

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: OECD 401
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Notes: OECD 402

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
a) acute toxicity:
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LD50 - Route: Skin > 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.

UNI LUBE SPRAY
The product is classified: Aquatic Chronic 2 - H411

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0
a) Aquatic acute toxicity:
Endpoint: LL50 - Species: Fish = 3-10 mg/l - Duration h: 96 h - Notes: OECD 203
Endpoint: ErC50 - Species: Algae = 10-30 mg/l - Duration h: 72 h - Notes: OECD 201
Endpoint: EC50 - Species: Crustacea = 7.4 mg/l - Duration h: 48 h - Notes: OECD 202
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish = 0.574 mg/l - Duration h: 28 d
Endpoint: NOEC - Species: Algae = 10 mg/l - Duration h: 3 d
Endpoint: NOEC - Species: Crustacea = 1 mg/l - Duration h: 21 d - Notes: OECD 211

butane - CAS: 106-97-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 49.9 mg/l - Duration h: 96 h - Notes: US Environmental Protection
Endpoint: ErC50 - Species: Algae = 19.37 mg/l - Duration h: 96 h - Notes: USEPA OPPT Risk Assessment

Endpoint: EC50 - Species: Daphnia = 69.43 mg/l - Duration h: 48 h - Notes: USEPA OPPT Risk Assessment

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1028 mg/l - Duration h: 96 h

Endpoint: ErC50 - Species: Algae > 10000 mg/l - Duration h: 72 h - Notes: ISO 10253

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1000 mg/l - Duration h: 28 d - Notes: 28d, ECHA

Endpoint: NOEC - Species: Crustacea > 1000 mg/l - Duration h: 21 d - Notes: 21d, ECHA

c) Bacteria toxicity:

> 100 mg/l - Duration h: 3 h - Notes: OECD 209

propane - CAS: 74-98-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 49.9 mg/l - Duration h: 96 h - Notes: US Environmental Protection

Endpoint: ErC50 - Species: Algae = 19.37 mg/l - Duration h: 96 h - Notes: USEPA OPPT Risk Assessment

Endpoint: EC50 - Species: Daphnia = 69.43 mg/l - Duration h: 48 h - Notes: USEPA OPPT Risk Assessment

12.2. Persistence and degradability

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

Biodegradability: Readily biodegradable - Duration h: 28d - %: 98% - Notes: OCSE

12.3. Bioaccumulative potential

butane - CAS: 106-97-8

Test: Log Pow 1.09

propane - CAS: 74-98-6

Test: Log Pow 1.09

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: 160504

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

ADR-UN number:	UN 1950
RID-UN Number:	UN 1950
ADN-UN Number:	1950
IATA-Un number:	UN 1950
IMDG-Un number:	1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS

IATA-Technical name: AEROSOLS, flammable
IMDG-Technical name: AEROSOLS

14.3. Transport hazard class(es)

ADR-Class: 2
ADR-Label: 2.1
RID-Class: 2
ADN-Class: 2
IATA-Class: 2.1
IATA-Label: 2.1
IMDG-Class: 2.1

14.4. Packing group

RID-Packing Group: -
ADN-Packing Group: -
ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -
ADR-Special provisions: 190 327 344 625
ADN-Special provisions: 190 327 344 625
IATA-Special provisions: A145 A167 A802
IMDG-Special provisions: 63 190 277 327 344 381 959
Limited quantity: 1 L
Accepted quantity: E0
Classification code: 5F
IATA Limited quantity Passenger: 30 kg G
IATA Passenger LQ: Y203

14.5. Environmental hazards

Marine pollutant: Marine pollutant
IMDG-EMS: F-D, S-U

14.6. Special precautions for user

ADR-Transport category (Tunnel restriction code): D
Rail (RID): 190 327 344 625
IATA-Passenger Aircraft: 203 / 75 kg
IATA-Cargo Aircraft: 203 / 150 kg
IMDG-Technical name: AEROSOLS

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
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
Product belongs to category: P3a, 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(%): 77.108
COV(g/l): 518.937

Full text of phrases referred to in Section 3:
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.

Hazard class and hazard category	**Code**	**Description**
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press Gas (Liq.)	2.5/L	Gases under pressure (Liquefied gas)
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2

Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
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**
Aerosols 1, H222, H229	On basis of test data
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	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.