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: MOTO CLEANER

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)
Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
Warning, Skin Sens. 1, May cause an allergic skin reaction.
Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements:

P102 Keep out of reach of children.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Disodium dioxido(oxo)silane pentahydrate
potassium hydroxide; causticpotash
2-methyl-2H-isothiazol-3-one

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:

stta	Name	Ident. Number	Classification
>= 10% - < 12,5%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336
>= 5% - < 7%	Decan-1-ol, ethoxylated	CAS: 26183-52-8 EC: 500-046-6	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318
>= 3% - < 5%	Disodium dioxido(oxo)silane pentahydrate	CAS: 10213-79-3 EC: 600-279-4	3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 3.8/3 STOT SE 3 H335
>= 2,5% - < 3%	Quaternary ammonium compounds, C12-14-alkyl(hydroxyet	EC: 810-152-7	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318

	hyl)dimethyl, ethoxylated, chlorides		
>= 1% - < 2,5%	potassium hydroxide; causticpotash	Index number: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 REACH No.: 01-21194871 36-33	2.16/1 Met. Corr. 1 H290 3.2/1A Skin Corr. 1A H314 3.1/4/Oral Acute Tox. 4 H302 Specific Concentration Limits: C >= 5%: Skin Corr. 1A H314 2% <= C < 5%: Skin Corr. 1B H314 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319
< 0,1%	2-methyl-2H-isothiazol-3-one	CAS: 2682-20-4 EC: 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

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Rinse skin with shower.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.

In case of eyes contact:

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.
Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

Call a doctor.
Do NOT induce vomiting.
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 breathing is irregular or stopped, administer artificial respiration.
Immediately 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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

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.
Hazardous combustion products:
Carbon oxides
Nitrogen oxides (NOx)

5.3. Advice for firefighters

Keep containers cool with water spray.
Use fire fighter's clothing conforming to European standard EN469.
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.
Wear personal protection equipment.
Stop leak if safe to do so.
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 containment:
Collect with absorbent substances (sand, kieselguhr, diatomite, acid binder, universal binder).

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
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat, drink or smoke when using this product.
Avoid breathing fume/gas/mist/vapours/spray.
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.
Store in a dry place. Store in a closed container.
Store in a well-ventilated place. Keep cool.
Protect from external stresses such as UV / sunlight.

Keep away from food, drink and feed.
Incompatible materials:
See subsection 10.5
Instructions as regards storage premises:
Adequately ventilated premises.
Storage class according to TRGS 510 8B

7.3. Specific end use(s)
Detergent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
MOTO CLEANER
- OEL Type: EU - TWA(8h): 184 mg/m3

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

Disodium dioxido(oxo)silane pentahydrate - CAS: 10213-79-3
- OEL Type: ACGIH - TWA(8h): 3 mg/m3 - Notes: Inhalation
- OEL Type: ACGIH - TWA(8h): 10 mg/m3 - Notes: Respiratory

potassium hydroxide; causticpotash - CAS: 1310-58-3
- OEL Type: ACGIH - STEL(15min): 2 mg/m3

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

Disodium dioxido(oxo)silane pentahydrate - CAS: 10213-79-3
Consumer: 0.74 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 6.22 mg/m3 - Consumer: 1.55 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 1.49 mg/kg bw/day - Consumer: 0.74 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

potassium hydroxide; causticpotash - CAS: 1310-58-3
Worker Professional: 1 mg/m3 - Consumer: 1 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local 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

Disodium dioxido(oxo)silane pentahydrate - CAS: 10213-79-3
Target: Freshwater - Value: 7.5 mg/l
Target: Marine water - Value: 1 mg/l
Target: Reference values for water, intermittent release - Value: 7.5 mg/l
Target: Microorganisms in sewage treatments - Value: 1000 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:

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

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.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

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,
Combination filter conforming to EN 14387, type A-P2
The class (1, 2 or 3) should be selected according to the limit concentration of use (ref. standard EN 14387).

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

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	--	20 °C
Colour:	Yellow	--	20 °C
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:	> 100 ° C	ASTM D 1120	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	12.3	ASTM E 70	5%
Kinematic viscosity:	<= 14 mm2/sec (40 °C)	--	--
Solubility in water:	Soluble	--	20 °C
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

Properties	Value	Method:	Notes
Oxidizing properties:	Non-oxidizing	--	--

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
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:
MOTO CLEANER
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
Test: LD50 - Route: Oral > 2000 mg/kg
b) skin corrosion/irritation
The product is classified: Skin Corr. 1A H314
c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1 H317
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
Decan-1-ol, ethoxylated - CAS: 26183-52-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg bw
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg bw
Test: LC50 - Route: Inhalation - Species: Rat > 1600 mg/m3 - Duration: 4h
Disodium dioxido(oxo)silane pentahydrate - CAS: 10213-79-3
a) acute toxicity:
Test: LD50 - Route: Oral 2400 mg/kg
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LC50 - Route: Inhalation > 2.06 mg/l - Duration: 4h

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg
potassium hydroxide; causticpotash - CAS: 1310-58-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 333 mg/kg
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.
MOTO CLEANER
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
Decan-1-ol, ethoxylated - CAS: 26183-52-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1.2 mg/l - Duration h: N.A.
Endpoint: EC50 - Species: Crustacea = 0.39 mg/l - Duration h: N.A.
Endpoint: ErC50 - Species: Algae = 0.43 mg/l - Duration h: N.A.
b) Aquatic chronic toxicity:
Endpoint: EC20 - Species: Fish > 2.92 mg/l - Notes: < 5.14 mg/l
Endpoint: EC20 - Species: Crustacea > 3.72 mg/l - Notes: < 6.55 mg/l
Endpoint: ErC20 - Species: Algae > 3.23 mg/l - Duration h: N.A. - Notes: < 5.67 mg/l
Disodium dioxido(oxo)silane pentahydrate - CAS: 10213-79-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1108 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Daphnia 1700 mg/l - Duration h: 48 h
Endpoint: EC50 - Species: Algae 207 mg/l - Duration h: 72 h
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 h
Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48 h
Endpoint: EC50 - Species: Algae > 1 mg/l - Duration h: 72 h
potassium hydroxide; causticpotash - CAS: 1310-58-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 80 mg/l - Duration h: 96 h
c) Bacteria toxicity:
Endpoint: EC50 22 mg/l - Notes: Photobacterium phosphoreum (15 min)
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%
Decan-1-ol, ethoxylated - CAS: 26183-52-8
Biodegradability: Readily biodegradable
Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides
Biodegradability: Readily biodegradable
potassium hydroxide; causticpotash - CAS: 1310-58-3
Test: Solubility in water - %: > 10 g/l

12.3. Bioaccumulative potential
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Test: Log Kow -49
Decan-1-ol, ethoxylated - CAS: 26183-52-8
Not bioaccumulative

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. Send to authorised disposal plants or for incineration under controlled conditions. 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.

ADR-UN number:	1719
RID-UN Number:	1719
IATA-Un number:	1719
IMDG-Un number:	1719

14.2. UN proper shipping name

ADR-Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM METASILICATE; POTASSIUM HYDROXIDE)
IATA-Technical name:	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM METASILICATE; POTASSIUM HYDROXIDE)
IMDG-Technical name:	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM METASILICATE; POTASSIUM HYDROXIDE)

N.A.

14.3. Transport hazard class(es)

ADR-Class:	8

ADR-Label: 8
ADR - Hazard identification number: 80
RID-Class: 8
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
N.A.

14.4. Packing group
RID-Packing Group: III
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
ADR-Special provisions: 274
IATA-Special provisions: A3, A803
Limited quantity: 5 L
N.A.

14.5. Environmental hazards
Marine pollutant: No
IMDG-EMS: F-A, S-B
N.A.

14.6. Special precautions for user
ADR-Transport category (Tunnel restriction code): E
IATA-Passenger Aircraft: 852, 5 L
IATA-Cargo Aircraft: 856, 60 L
IMDG-Technical name: CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM METASILICATE; POTASSIUM HYDROXIDE)
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

Restriction 40

Restrictions related to the substances contained:

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

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(%): 10.00
COV(g/l): 107.00

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H410 Very toxic to aquatic life with long lasting effects.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
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**
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
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
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4

Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, 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

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**
Skin Corr. 1A, H314	Calculation method
Skin Sens. 1, H317	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.