

According to Regulation (EC) No 1907/2006

Maximo Liquid Forte

Version number: 4
Issued: 2022-02-21
Replaces SDS: 2017-03-31



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

1.1. Product identifier

Trade name

Maximo Liquid Forte

UFI code

8650-EGX8-NF1J-Q442

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Liquid detergent for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Street address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Fax

+49 (0) 5223 9970-195

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email address

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0)551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Eye irritation, hazard category 2

Hazard statements

H319

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P264 Wash hands thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Alcohols, C12-14, ethoxylated	68439-50-9 - 01-2119487984-16-xxxx -	10 - 15%	Acute Tox. 4 - oral, Eye Dam. 1, Aquatic Chronic 3	H302, H318, H412 - -	-
Ethanol	64-17-5 200-578-6 01-2119457610-43-xxxx 603-002-00-5	5 - 10%	Flam. Liq. 2, Eye Irrit. 2	H225, H319 - -	Eye Irrit. 2:C>50%
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides	110615-47-9 - 01-2119489418-23-xxxx -	5 - 10%	Skin Irrit. 2, Eye Dam. 1	H315, H318 - -	Eye Dam. 1: C>12% Skin Irrit. 2: >30%
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3 270-115-0 01-2119489428-22-xxxx -	1 - 5%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3	H302, H315, H318, H412 - -	-
DTPMP	15827-60-8 239-931-4 - -	1 - 2%	Met. Corr. 1, Skin Irrit. 2, Eye Dam. 1	H290, H315, H318 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

If breathed in, move person into fresh air.

Skin contact

Wash off with soap and water.

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Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician if necessary.

Information for doctors

For specialist advice physicians should contact the Poisons Information Service. Show this safety data sheet to the doctor in attendance.

4.2. Most important symptoms and effects, both acute and delayed

Immediate effects can be expected after long-term exposure.

Inhalation

Not applicable.

Skin contact

Skin irritation / erythema

Eye contact

Irritation / redness

Ingestion

Nausea, vomiting, stomach/intestinal disorders. Redness of the mouth and throat.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, extinguishing powder, foam or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Measures in case of fire

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product.

6.2. Environmental precautions

Try to prevent the material from entering drains or water courses. Dilute with plenty of water.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Ventilate the area.

6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product.

General hygiene

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 12 (non-flammable liquids)

Store in original container.

Storage temperature: 10°C to 40°C

7.3. Specific end use(s)

PC35 - Washing and cleaning products (including solvent based products)

See section 1.2: Liquid detergent

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Oral	87 mg/m ³	Consumers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	343 mg/m ³	Workers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	950 mg/m ³	Workers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	114 mg/m ³	Consumers	Systemic
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	DNEL	Chronic (long term) Oral	0.85 mg/kg	Consumers	Systemic
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	DNEL	Chronic (long term) Dermal	170 mg/kg	Workers	Systemic
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	DNEL	Chronic (long term) Inhalation	12 mg/kg	Workers	Systemic
D-Glucopyranose, oligomeric, C10- 16(even numbered) alkyl glycosides (110615-47-9/-)	DNEL	Chronic (long term) Dermal	595000 mg/kg	Workers	Systemic
D-Glucopyranose, oligomeric, C10- 16(even numbered) alkyl glycosides (110615-47-9/-)	DNEL	Chronic (long term) Inhalation	420 mg/m ³	Workers	Systemic
D-Glucopyranose, oligomeric, C10- 16(even numbered) alkyl glycosides (110615-47-9/-)	DNEL	Chronic (long term) Oral	35.7 mg/kg	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
ethanol (64-17-5/200-578-6)	PNEC	Freshwater	0.96 mg/l
ethanol (64-17-5/200-578-6)	PNEC	Sediment (freshwater)	3.6 mg/kg
ethanol	PNEC	Soil	0.63 mg/kg

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(64-17-5/200-578-6)			
ethanol (64-17-5/200-578-6)	PNEC	Sewage Treatment Plant	580 mg/l
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	PNEC	Sediment (freshwater)	8.1 mg/kg
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	PNEC	Sewage Treatment Plant	3.43 mg/kg
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3/270-115-0)	PNEC	Freshwater	0.268 mg/kg
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9/-)	PNEC	Freshwater	0.176 mg/l
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9/-)	PNEC	Soil	0.654 mg/kg
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9/-)	PNEC	Sewage Treatment Plant	5000 mg/l

8.2. Exposure controls

Appropriate engineering controls

Not required.

Eye / face protection

Chemical-resistant safety glasses with side protection (EN 166)

Hand protection

Chemical-resistant protective gloves (EN 374)

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable.

Environmental exposure controls

No special environmental precautions required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

tan

Odour

fresh scent

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not applicable.

Boiling point or initial boiling point and boiling range

Not applicable.

Flammability

Not determined for the mixture.

Lower and upper explosion limit

The product / mixture has no explosive properties.

Flash point

No data available

Auto-ignition temperature

Not determined for the mixture.

Decomposition temperature

Not determined for the mixture.

pH

9.5

Kinematic viscosity

Not applicable.

Viscosity, dynamic

0.8 dPa · s

Method

Haake, 25°C

Solubility

Water soluble

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Water solubility

miscible

Partition coefficient n-octanol/water

No information available

Vapour pressure

Not applicable.

Density and/or relative density

1.04 g/cm³

Relative density

No information available

Relative vapour density

Not applicable.

Evaporation Rate

Not applicable.

Explosive properties

The product / mixture has no explosive properties.

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

8 %

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use.

10.2. Chemical stability

Stable at normal conditions

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

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10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

SECTION 11: Toxicological information

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

Toxicology data for the components .

Acute toxicity

Based on the available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
ethanol 64-17-5 / 200-578-6	LD50	10.470 mg/kg	Oral	-	rat	OECD 401
ethanol 64-17-5 / 200-578-6	LD50	> 2.000 mg/kg	Dermal	-	rabbit	OECD 402
ethanol 64-17-5 / 200-578-6	LC50	> 50 mg/l	Inhalation	4 h	rat	OECD 403
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 / 270-115-0	LD50	~ 1020 mg/kg	Oral	-	rat	-
DTPMP 15827-60-8 / 239-931-4	LD50	7180 mg/kg	Oral	-	rat	-
DTPMP 15827-60-8 / 239-931-4	LD50	>7980 mg/kg	Dermal	-	rat	-
Alcohols, C12-14, ethoxylated 68439-50-9 /	LD50	<2.000 mg/kg	Oral	-	rat	-

Skin corrosion/irritation

May cause skin irritation.

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Serious eye damage/irritation

Eye irritation, hazard category 2

Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

STOT-single exposure

Based on the available data, the classification criteria are not met.

STOT-repeated exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information**12.1. Toxicity****Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
ethanol 64-17-5 / 200-578-6	LC50	8.140 mg/l	48 h	Golden orfe	-
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 / 270-115-0	LC50	1,67 mg/l	96 h	Bluegill sunfish	-
D-Glucopyranose, oligomeric, C10-16(even numbered)	LC50	2,95 mg/l	96h	Brachydanio rerio (zebra fish)	OECD 203

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
alkyl glycosides 110615-47-9 /					
DTPMP 15827-60-8 / 239-931-4	LC50	758 mg/l	96 h	Bluegill sunfish (Lepomis macrochirus)	-

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
ethanol 64-17-5 / 200-578-6	EC50	275 mg/l	72 h	Chlorella vulgaris (Fresh water algae)	OECD 201
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 / 270-115-0	EC50	29 mg/l	96 h	Pseudokircheneriella sub.	-
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides 110615-47-9 /	EC50	12,5 mg/l	72h	Desmodesmus subspicatus	OECD 201
DTPMP 15827-60-8 / 239-931-4	EC50	2 mg/l	96 h	Selenastrum capricornutum (green algae)	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanol 64-17-5 / 200-578-6	EC50	> 10.000 mg/l	48 h	Daphnia magna (Water flea)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 / 270-115-0	EC50	2,9 mg/l	48 h	Daphnia magna
D-Glucopyranose, oligomeric, C10-16(even numbered) alkyl	EC50	7 mg/l	48h	Daphnia magna (Water flea)

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
glycosides 110615-47-9 /				
DTPMP 15827-60-8 / 239-931-4	EC50	242 mg/l	48h	Daphnia magna (Water flea)

12.2. Persistence and degradability

Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

waste disposal accordance with applicable local/regional/national/international regulations

Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging : Dispose of as unused product.

Waste code	Description
20 01 29*	detergents containing hazardous substances

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Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3. Transport hazard class(es)

Label

Not classified as dangerous in the meaning of transport regulations.

14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

Other

Not applicable

According to Regulation (EC) No 1907/2006

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SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: 15-30% non-ionic surfactants, 5-15% soap, <5% anionic surfactants, phosphonates. Contains: enzymes, PROTEASE, AMYLASE, optical brighteners, perfumes.

Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision

Adaptation to the amending regulation (EU) 2020/878

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Abbreviations

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR - Accord relatif au transport international des marchandises Dangereuses par Route
CAS - Chemical Abstract Service
CLP - Classification, Labelling and Packaging
DMEL - Derived Minimum Effect Level
DNEL - Derived no effect level
EC50 - Half maximal effective concentration 50%
GHS - Globally Harmonised System
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Lethal concentration 50%
LD50 - Lethal dosis 50 %
MARPOL - International Convention for the Prevention of Pollution from Ships
PBT - Persistent, bioaccumulative and toxic substance
PEC - Predicted Environmental Concentration
PNEC - predicted no effect concentration
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses
SVHC - Substance of very high concern
vPvB - Very persistent, very bioaccumulative substance

References to key literature and data sources

REACH registration dossiers
ECHA C&L - Inventory
Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:

Health hazards: The skin and/or eye classification of this product was derived using bridging principles (such as dilution, interpolation within one hazard category or substantially similar mixtures; with or without expert judgement) following Article 9(3) and Article 9(4) of Regulation (EC) No 1272/2008. DetNet logging number: 827
Environmental hazards: calculation method

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Phrase meaning

Flam. Liq. 2 - Flammable liquids, hazard category 2
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3
Met. Corr. 1 - Corrosive to metals, hazard category 1
H225 Highly flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Other

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.