



REIN ABER RICHTIG

E.MAYR REINIGUNGSTECHNIK

Safety Data Sheet

According to 1907/2006, article 31 as amended

LiGreen Dynamic Pro Geschirreiniger

Item No.: 4324-10I/ Item No.:4325

Final check: 09.02.2026

Version number: GHS 1.0

Date of compilation: 2024-09-30

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

1.1 Product identifier

Trade name	LiGreen Dynamic Pro Geschirreiniger
Registration number (REACH)	not relevant (mixture)
Unique Formula Identifier (UFI)	403D-S3J9-0D9P-UHFN

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

Relevant identified uses	Dishwashing liquid
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1.3 Details of the producer and the supplier of the safety data sheet

Producer:	Donauchem GmbH	Supplier:	E. MAYR Reinigungstechnik
	A-1030 Wien		Ges.m.b.H.
	Lisztstraße 4		Ortsstraße 285
	Tel.: +43 1 71148-0		A-2331 Vösendorf
	Lager Pischelsdorf		Tel.: 01/699 17 64-0
	A-3435 Pischelsdorf		Telefax: 01/699 17 64-33
	Industriegelände		E.Mail: office@e-mayr.at
	Tel.: +43 2277 90500-0:		Web: www.e-mayr.at
	National contact		

1.4 Emergency telephone number

Poison control centre for Austria: Tel. 01/406 43 43-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling

- Signal word danger

- Pictograms

GHS05



- Hazard statements

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

- Precautionary statements

P102

Keep out of reach of children.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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].

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

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

P310

Immediately call a POISON CENTER/doctor.

P406

Store in a corrosion-resistant container with a resistant inner liner.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Sodium hydroxide, Potassium hydroxide, (1-Hydroxyethylidene)-1,1-diphosphonic acid

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Sodium hydroxide	CAS No 1310-73-2 EC No 215-185-5 Index No 011-002-00-6	5 – < 10	Met. Corr. 1 / H290 Skin Corr. 1A / H314 Eye Dam. 1 / H318	
Potassium hydroxide	CAS No 1310-58-3 EC No 215-181-3 Index No 019-002-00-8	5 – < 10	Met. Corr. 1 / H290 Acute Tox. 4 / H302 Skin Corr. 1A / H314 Eye Dam. 1 / H318	
(1-Hydroxyethylidene)- 1,1-diphosphonic acid	CAS No 2809-21-4 64-18-6 EC No 220-552-8	1 – < 5	Met. Corr. 1 / H290 Acute Tox. 4 / H302 Eye Dam. 1 / H318	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Sodium hydroxide	Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Dam. 1; H318: $C \geq 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	-	-	
Potassium hydroxide	Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Dam. 1; H318: $C \geq 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	-	333 mg/kg	oral
(1-Hydroxyethylidene)- 1,1-diphosphonic acid	-	-	1,878 mg/kg	oral

Remarks

For full text of abbreviations: see SECTION 16

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash preferably with DIPHOTERINE® otherwise 15 minutes with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Keep the eyelids open. Rinse preferably 3 minutes with DIPHOTERINE®, otherwise 15 minutes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, Fire extinguishing powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Chemical protective clothing, Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Removal of ignition sources.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Keep container tightly closed. Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

Do not mix with acids.

- Keep away from

Acids

Advice on general occupational hygiene

Take off immediately all contaminated clothing. Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- Incompatible substances or mixtures

- Do not mix with

Acids

Control of effects

Protect against external exposure, such as

frost

- Specific designs for storage rooms or vessels

Provide alkali-resistant floor.

Unsuitable materials for containers

Aluminium. Zinc.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
GB	potassium hydroxide	1310-58-3	WEL				2				EH40/2005
GB	sodium hydroxide	1310-73-2	WEL				2				EH40/2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs of components of the mixture							
Name of substance	CAS No	EC No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sodium hydroxide	1310-73-2	215-185-5	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Sodium hydroxide	1310-73-2	215-185-5	DNEL	1 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
Potassium hydroxide	1310-58-3	215-181-3	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Potassium hydroxide	1310-58-3	215-181-3	DNEL	1 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	DNEL	12 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	DNEL	34 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	DNEL	2.95 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	DNEL	17 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
(1-Hy-	2809-	220-	DNEL	1.7 mg/kg	human, oral	consumer	chronic - sys-

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Relevant DNELs of components of the mixture							
Name of substance	CAS No	EC No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
droxyethylidene)-1,1-diphosphonic acid	21-4 64-18-6	552-8		bw/day		(private households)	temic effects
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	DNEL	1.7 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Environmental values

Relevant PNECs of components of the mixture							
Name of substance	CAS No	EC No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	0.068 mg/l	aquatic organisms	freshwater	short-term (single instance)
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	0.007 mg/l	aquatic organisms	marine water	short-term (single instance)
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	40 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	136 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	13.6 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	220-552-8	PNEC	10 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment must comply with Regulation (EU) 425/2016. Other national regulations must be observed. The standards listed below are minimum standards. The user must check whether additional standards must be complied with.

Eye/face protection

Use safety goggle with side protection. (EN 166).

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30



Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.



- Type of material

PVC: polyvinyl chloride, CR: chloroprene (chlorobutadiene) rubber, NBR: acrylonitrile-butadiene rubber

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Wear respiratory protection if aerosol or mist forms. Full face mask (DIN EN 136). Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	>100 °C
Evaporation rate	not determined
Flammability	non-combustible
Flash point	not relevant (non-combustible)
Auto-ignition temperature	not applicable
Decomposition temperature	not relevant
pH (value)	12 – 13 (base)

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Vapour pressure	not determined
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Density and/or relative density

Density	1.29 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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Other safety parameters

Explosive properties	none
Oxidising properties	none

9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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Other safety characteristics

Miscibility	Completely miscible with water.
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Reacts with acids.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Potassium hydroxide	1310-58-3	oral	LD50	333 mg/kg	rat
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	dermal	LD50	>5,000 mg/kg	rabbit
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	oral	LD50	1,878 mg/kg	rat

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sodium hydroxide	1310-73-2	LC50	<180 mg/l	fish	96 h
Sodium hydroxide	1310-73-2	EC50	40.4 mg/l	aquatic invertebrates	48 h
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	LC50	2,180 mg/l	fish	96 h
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	EC50	1,770 mg/l	aquatic invertebrates	48 h
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	NOEC	104 mg/l	fish	96 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sodium hydroxide	1310-73-2	EC50	22 mg/l	microorganisms	15 min
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	EC50	871 mg/l	aquatic invertebrates	24 h
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	LC50	180 mg/l	fish	14 d
(1-Hydroxyethylidene)-1,1-diphosphonic acid	2809-21-4 64-18-6	NOEC	60 mg/l	fish	14 d

12.2 Persistence and degradability

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

Remarks

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

Not assigned Disposal code numbers according to the European Waste Catalogue are defined according to origin of the waste. As this product is used in several branches of industry, no disposal code number can be specified by the manufacturer. The waste code number must be determined in consultation with the disposal company or the competent authority.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID	UN 1719
IMDG-Code	UN 1719
ICAO-TI	UN 1719

14.2 UN proper shipping name

ADR/RID	CAUSTIC ALKALI LIQUID, N.O.S.
IMDG-Code	CAUSTIC ALKALI LIQUID, N.O.S.
ICAO-TI	Caustic alkali liquid, n.o.s.
Technical name (hazardous ingredients)	Sodium hydroxide, (1-Hydroxyethylidene)-1,1-diphosphonic acid

14.3 Transport hazard class(es)

ADR/RID	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

ADR/RID	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

Particulars in the transport document	UN1719, CAUSTIC ALKALI LIQUID, N.O.S., (contains: Sodium hydroxide, (1-Hydroxyethylidene)-1,1-diphosphonic acid), 8, II, (E)
Classification code	C5
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80
Emergency Action Code	2R

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code	C5
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	80

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration	UN1719, CAUSTIC ALKALI LIQUID, N.O.S., (contains: Sodium hydroxide, (1-Hydroxyethylidene)-1,1-diphosphonic acid), 8, II
Marine pollutant	-
Danger label(s)	8

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	A
Segregation group	18 - Alkalis

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Particulars in the shipper's declaration	UN1719, Caustic alkali liquid, n.o.s., (contains: Sodium hydroxide, (1-Hydroxyethylidene)-1,1-diphosphonic acid), 8, II
Danger label(s)	8



Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Industrial Emissions Directive (IED)

VOC content	0 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Safety Data Sheet

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

LiGreen Dynamic Pro Geschirreiniger

Version number: GHS 1.0

Date of compilation: 2024-09-30

Regulation on drug precursors

none of the ingredients are listed

Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
phosphonates polycarboxylates	less than 5 %

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
LiGreen Dynamic Pro Geschirreiniger	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

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Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.