

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: December 3, 2025

Version No.: 1.0

Revision: December 3, 2025

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

• 1.1 Product identifier

• Trade name:

Essentiva Home Quality Enhanced Laundry Detergent Sheet-With Fragrance

• Other means of identification:

UFI code: No available data.

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

• Relevant identified uses:

Consumer uses, cleaning.

• Uses advised against:

No available data.

• Reason why uses advised against:

No available data.

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Guangzhou Joyson Cleaning Products Co. Ltd.

Room 101, Building 1, No. 9, Shengping Road, Dongliu, Nansha District, Guangzhou City, Guangdong Province, China

Post code: 511470

Tel: +086-20-3901-2430

Email: zhongjj@xscclean.com

National contact: Zhongjianjia

• Only Representative/other EU contact point:

No information available.

• 1.4 Emergency telephone number

Tel: +086-18930068728

(24 hours available, for English and Chinese service)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• 2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Irrit.2, H315	Additivity approach
Skin Sens. 1, H317	Cut-off values/concentration limits approach
Eye Dam. 1, H318	Additivity approach
STOT SE 3, H335	Additivity approach
Aquatic Chronic 3, H412	Summation method

• 2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• 2.2 Label elements

• Labeling according to Regulation (EC) No 1272/2008:

The product is labelled according to CLP Regulation.

• Hazard pictograms:

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GHS05 GHS07

• **Signal word:**

Danger

• **Hazard-determining components of labelling:**

Sodium dodecyl sulphate

Cocamidopropyl betaine

• **Hazard statements:**

- | | |
|------|---|
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H335 | May cause respiratory irritation |
| H412 | Harmful to aquatic life with long lasting effects |

• **Precautionary statement:**

- | | |
|---------------------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |
| P264 | Wash hands and face thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/ eye protection/ face protection. |
| P305+P351+P338+P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local regulation. |

• **Supplemental label elements:**

Contains Protease; 1,2-Benzisothiazol-3(2H)-one.

• **Obligatory supplemental labelling information**

• **Regulation 648/2004 on Detergents:**

>30%: anionic surfactants
 15-30%: non-ionic surfactants
 <5%: amphoteric surfactant
 Enzymes
 Perfumes
 Benzisothiazolinone

• **2.3 Other hazards**

None of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients ($\geq 0.1\%$) are identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• **3.2 Mixtures**

• **Description of the mixture:**

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Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Sodium dodecyl sulphate	151-21-3	-	205-788-1	15-35	Flam. Sol. 2, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	ATE (oral)= 1290 mg/kg ATE (inhal.)= 1.5 mg/l (dust/mist) Eye Dam. 1, H318: C $\geq$ 20% Eye Irrit. 2, H319: 10% $\leq$ C<20%
Polyvinyl alcohol	25213-24-5	-	-	15-30	None	-
Water	7732-18-5	-	231-791-2	5-15	None	-
Kaolin, calcined	92704-41-1	-	296-473-8	5-15	None	-
Glycerin	56-81-5	-	200-289-5	1-10	None	-
Sodium citrate	6132-04-3	-	-	1-10	None	-
Laureth-4	68439-50-9	-	-	1-10	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M=1
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	-	-	1-10	Skin Irrit. 2, H315 Eye Dam. 1, H318	-
Cocamidopropyl betaine	61789-40-0	-	263-058-8	0.5-5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-
Lauramidopropylamine oxide	61792-31-2	-	263-218-7	0.5-5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)= 500 mg/kg M=1
Sodium lauroamphoacetate	156028-14-7	-	-	0.5-5	None	-
Lauryl glucoside	110615-47-9	-	-	0.5-5	Skin Irrit. 2, H315 Eye Dam. 1, H318	-
2-Pyrrolidinone, 1-ethenyl-, polymer with 1-ethenyl-1H-imidazole	29297-55-0	-	-	0.5-5	Skin Irrit. 2, H315	-

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Fragrance	-	-	-	0.5-5	None	-
Microcapsule essence	-	-	-	0.5-5	None	-
PEG-9 dimethicone	68937-54-2	-	-	0.3-3	None	-
Saponins	8047-15-2	-	232-462-6	0.1-1	Eye Irrit. 2, H319 STOT SE 3, H335	-
Citric acid	5949-29-1	-	-	0.1-1	Eye Irrit. 2, H319 STOT SE 3, H335	-
Protease	9014-01-1	647-012-00-8	232-752-2	0.1-0.9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=1800 mg/kg M=1
Dichlorobenzyl alcohol	1777-82-8	-	217-210-5	0.1-0.5	Eye Dam. 1, H318 Acute Tox. 4, H332 Aquatic Chronic 3, H412	ATE (inhal.)=2.04 mg/l (dust/mist)
Zinc diricinoleate	13040-19-2	-	235-911-4	0.05-0.5	None	-
1,2-Benzisothiazol-3(2H)-one	2634-33-5	613-088-00-6	220-120-9	0-0.01	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE (oral)= 450 mg/kg ATE (inhal.)= 0.21 mg/L (dusts or mists) Skin Sens. 1A, H317: C≥0.036% M=1 M(Chronic)=1

Additional information:

Full text of H- and EUH-statements, see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

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

Following inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

Following skin contact:

Wash skin with plenty of soap and water.

If there are signs of irritation or other symptoms, seek medical attention.

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• **Following eye contact:**

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

• **Following ingestion:**

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

• **Self-protection of the first aider:**

Wear disposable, latex free gloves.

• **4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are as indicated in sections 2 and 11.

• **4.3 Indication of any immediate medical attention and special treatment needed:**

Treat according to symptom, there is not known specific medicine.

SECTION 5: Fire-fighting measures

• **5.1 Extinguishing media**

• **Suitable extinguishing agents:**

Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

• **Unsuitable extinguishing media:**

Water with full jet.

• **5.2 Special hazards arising from the substance or mixture**

• **Hazardous combustion products:**

May produce corrosive/allergic dust in air under fire.

• **5.3 Advice for firefighters**

• **Protective equipment:**

Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

• **6.1.1 For non-emergency personnel**

• **Protective equipment:**

Protective gloves/ eye protection/ face protection and respiration protection.

• **Emergency procedures:**

Ensure good ventilation.

Wear Protective gloves/ eye protection/ face protection and respiration protection.

Avoid contact with skin and eyes.

Avoid breathing dust.

Avoid release to the environment.

• **6.1.2 For emergency responders**

• **Personal protective equipment:**

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Protective gloves/ eye protection/ face protection and respiration protection.

• **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

• **6.3 Methods and material for containment and cleaning up**

• **6.3.1 For containment:**

Bunding, covering of drains.

• **6.3.2 For cleaning up:**

Pick up mechanically.

• **6.3.3 Other information:**

Dispose contaminated material as waste according to section 13.

• **6.4 Reference to other sections:**

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

• **Protective measures:**

Read carefully and follow all instructions.

Avoid breathing dust.

Avoid contact with skin and eyes.

Avoid release to the environment.

• **Measures to prevent fire:**

Normal measures for preventive fire protection.

• **Measures to prevent aerosol and dust generation:**

Ensure well ventilation at workplace.

• **Measures to protect the environment:**

Avoiding spills or keeping away from drains.

• **Advice on general occupational hygiene:**

Wear protective gloves/ eye protection/ face protection and respiration protection.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Technical measures and storage conditions:**

Store in a cool and well-ventilated place.

Keep out of reach of children.

• **Packaging materials:**

No specific material.

• **Requirements for storage rooms and vessels:**

No further requirements.

• **Storage class:**

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• Further information on storage conditions:

Store locked up.

• 7.3 Specific end use(s)
• Recommendations:

See section 1.2.

• Industrial sector specific solutions:

No further information.

SECTION 8: Exposure controls/personal protection

• 8.1 Control parameters
• Ingredients with limit values that require monitoring at the workplace:

Country	Limit value - Eight hours	Limit value - Short term
56-81-5 Glycerin		
Belgium	10 mg/m ³	-
Finland	20 mg/m ³	-
France	10 mg/m ³	-
Germany (DFG)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
Ireland	10 mg/m ³	-
Poland	10 mg/m ³	-
Spain	10 mg/m ³	-
United Kingdom	10 mg/m ³	-
9014-01-1 Protease		
Belgium	0.00006 mg/m ³	-
Denmark	0.00006 mg/m ³	0.00006 mg/m ³
Ireland	0.00006 mg/m ³	0.00006 mg/m ³ 15 minutes reference period
Spain	-	0.00006 mg/m ³
Sweden	1 mg/m ³ glycine unit/m ³	3 mg/m ³ glycine unit/m ³ 15 minutes average value
United Kingdom	0.00004 mg/m ³	-

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
151-21-3 Sodium dodecyl sulphate			
Systemic effects	Long-term, inhalation exposure	285 mg/m ³	85 mg/m ³
	Long-term, dermal exposure	4 060 mg/kg bw/day	2 440 mg/kg bw/day
	Long-term, oral exposure	-	24 mg/kg bw/day
68439-50-9 Laureth-4			
Systemic effects	Long-term, inhalation exposure	19.6 mg/m ³	3.48 mg/m ³
	Long-term, dermal exposure	187 mg/kg bw/day	66.7 mg/kg bw/day
	Long-term, oral exposure	-	1.33 mg/kg bw/day

• PNECs:

PNEC type	Value
151-21-3 Sodium dodecyl sulphate	

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Freshwater	176 µg/L
Intermittent releases (freshwater)	55 µg/L
Marine water	17.6 µg/L
Sewage treatment plant (STP)	1.35 mg/L
Sediment (freshwater)	6.97 mg/kg sediment dw
Sediment (marine water)	697 µg/kg sediment dw
Soil	1.29 mg/kg soil dw
68439-50-9 Laureth-4	
Freshwater	3.4 µg/L
Intermittent releases (freshwater)	445 ng/L
Marine water	340 ng/L
Intermittent releases (marine water)	44.5 ng/L
Sewage treatment plant (STP)	200 µg/L
Sediment (freshwater)	89.5 µg/kg sediment dw
Sediment (marine water)	8.95 µg/kg sediment dw
Soil	16 µg/kg soil dw

• **Additional information:**

The lists valid during the marking were used as basis.

• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **8.2.1 Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

• **8.2.2. Personal protection equipment**

• **Eye/face protection:**



Safety glasses

Protective goggles with side-shields.

• **Skin protection**

• **Hand protection:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).

• **Other skin protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Face protection



Safety boots



Safety overalls

Face shield, gauntlets, boots, bodysuit are recommended.

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• **Respiration protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Respiratory equipment

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Thermal hazards:**

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• **8.2.3 Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• Physical state	Solid
• Color	White
• Odor & Odor threshold	With fragrance
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	Not determined
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not applicable
• Flash point	Not applicable
• Auto-ignition temperature	Not applicable
• Decomposition temperature	Not determined
• pH	6-8.5
• Kinematic viscosity (mm²/s)	Not applicable
• Solubility	Not determined
• Partition coefficient n-octanol/water (log value)	Not applicable
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined
• Particle characteristics	Not determined

• **9.2 Other information**

• **9.2.1 Information with regard to physical hazard classes:**

• Explosives	Not applicable
• Flammable gases	Not applicable
• Aerosols	Not applicable
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable

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• <i>Flammable liquids</i>	<i>Not applicable</i>
• <i>Flammable solids</i>	<i>Not applicable</i>
• <i>Self-reactive substances and mixtures</i>	<i>Not applicable</i>
• <i>Pyrophoric liquids</i>	<i>Not applicable</i>
• <i>Pyrophoric solids</i>	<i>Not applicable</i>
• <i>Self-heating substances and mixtures</i>	<i>Not applicable</i>
• <i>Substances and mixtures, which emit flammable gases in contact with water</i>	<i>Not applicable</i>
• <i>Oxidizing liquids</i>	<i>Not applicable</i>
• <i>Oxidizing solids</i>	<i>Not applicable</i>
• <i>Organic peroxides</i>	<i>Not applicable</i>
• <i>Corrosive to metals</i>	<i>Not applicable</i>
• <i>Desensitised explosives</i>	<i>Not applicable</i>
• 9.2.2 Other safety characteristics	
• <i>Mechanical sensitivity</i>	<i>Not applicable</i>
• <i>Self-accelerating polymerisation temperature</i>	<i>Not applicable</i>
• <i>Formation of explosible dust/air mixtures</i>	<i>Not applicable</i>
• <i>Acid/alkaline reserve</i>	<i>Not applicable</i>
• <i>Evaporation rate</i>	<i>Not applicable</i>
• <i>Miscibility</i>	<i>Not applicable</i>
• <i>Conductivity</i>	<i>Not applicable</i>
• <i>Corrosiveness</i>	<i>Not applicable</i>
• <i>Gas group</i>	<i>Not applicable</i>
• <i>Redox potential</i>	<i>Not applicable</i>
• <i>Radical formation potential</i>	<i>Not applicable</i>
• <i>Photocatalytic properties</i>	<i>Not applicable</i>
• <i>Other physical and chemical parameters</i>	<i>Not determined</i>

SECTION 10: Stability and reactivity

• 10.1 Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

• 10.2 Chemical stability:

Under storage at normal ambient temperatures, the product is stable.

• 10.3 Possibility of hazardous reactions:

No known hazardous reaction.

• 10.4 Conditions to avoid:

High temperature.

• 10.5 Incompatible materials:

Strong oxidizing agent and acids.

• 10.6 Hazardous decomposition products:

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Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

• Acute toxicity:

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

Species	Effective Dose	Results	Method/Source
151-21-3 Sodium dodecyl sulphate			
Rat	LD50-oral	1290 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
Rat	LC50-inhalation	>3900 mg/m ³ /1H	BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., 23-3/1971.
Rat	LD50-dermal	>2000 mg/kg	ECHA registered dossier.
Rabbit	LD50-dermal	580 mg/kg	Henkel KGaA Duesseldorf [IUCLID 2000]
68439-50-9 Laureth-4			
Rat	LD50-oral	>2000 mg/kg	ECHA registered dossier.
61789-40-0 Cocamidopropyl betaine			
Rat	LD50-oral	>5000 mg/kg	ECHA registered dossier.
Rabbit	LD50-dermal	2000 mg/kg	ECHA registered dossier.

• Skin corrosion/irritation:

Causes skin irritation.

• Serious eyes damage/ irritation:

Causes serious eye damage.

• Respiratory or skin sensitization:

May cause an allergic skin reaction.

• Germ cell mutagenicity:

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

• Carcinogenicity:

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

• Reproductive toxicity:

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

• STOT-single exposure:

May cause respiratory irritation.

• STOT-repeated exposure:

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

• Aspiration hazard:

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

• 11.2 Information on other hazards

• 11.2.1 Endocrine disrupting properties:

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None of the ingredients ($\geq 0.1\%$) are considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

11.2.2 Other information:

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

12.1 Toxicity:

Species	Effect dose	Test duration	Value
151-21-3 Sodium dodecyl sulphate			
Pimephales promelas	LC50	96h	29 mg/L
Cyprinodon variegatus	LC50	96h	4.1 mg/L
Pimephales promelas	NOEC	42d	≥ 1.36 mg/L
Ceriodaphnia dubia	EC50	48h	5.55 mg/L
Artemia salina	LC50	48h	3.15 mg/L
Desmodesmus subspicatus	EC50	72h	120 mg/L
Desmodesmus subspicatus	NOEC	72h	30 mg/L
68439-50-9 Laureth-4			
Pimephales promelas	LC50	96h	0.423 mg/L
Pimephales promelas	NOEC	28d	0.251 mg/L
Daphnia magna	EC50	48h	0.125 mg/L
Daphnia magna	NOEC	21d	0.054 mg/L
Raphidocelis subcapitata	EC50	72h	0.0445 mg/L
Raphidocelis subcapitata	NOEC	72h	0.034 mg/L
61789-40-0 Cocamidopropyl betaine			
Danio rerio	LC50	96h	2 mg/L
Oncorhynchus mykiss	NOEC	28d	0.16 mg/L
Daphnia magna	EC50	48h	6.4 mg/L
Daphnia magna	NOEC	21d	0.9 mg/L
Ulva lactuca	EC50	48h	30 mg/L

12.2 Persistence and degradability:

CAS	Substance	Biodegradation	Hydrolysis
151-21-3	Sodium dodecyl sulphate	95%(28d)	-
68439-50-9	Laureth-4	95%(28d)	-
61789-40-0	Cocamidopropyl betaine	>90%(5d)	-

12.3 Bio-accumulative potential:

CAS	Substance	Log Pow	BCF
151-21-3	Sodium dodecyl sulphate	-2.03	-
68439-50-9	Laureth-4	5.24	-
61789-40-0	Cocamidopropyl betaine	-1.28	70.79

12.4 Mobility in soil:

CAS	Substance	Surface tension (mN/m)	Log Koc
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151-21-3	Sodium dodecyl sulphate	25.2 (1 g/l, 23°C)	2.5
68439-50-9	Laureth-4	41.46 (0.98 mg/L, 25°C)	2.36
61789-40-0	Cocamidopropyl betaine	35	2.81

• **12.5 Results of PBT and vPvB assessment:**

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) are considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• **12.7 Other adverse effects:**

No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:**

WGK1 (German Regulation) (self-assessment): slightly hazardous to water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:**

Must not be disposed together with household garbage.

• **13.2 Un-cleaned packaging**

• **Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• **14.1 UN number or ID number**

• ADR/ADN/RID (2025 Edition)	Not applicable/Not regulated, this product is not subject to ADR/ADN/RID.
• IMO/IMDG (41-22)	Not applicable/Not regulated, this product is not subject to IMO/IMDG code.
• IATA-DGR (66th)	Not applicable/Not regulated, this product is not subject to IATA-DGR.

• **14.2 UN proper shipping name**

• ADR/ADN/RID (2025 Edition)	Not applicable/Not regulated
• IMO/IMDG (41-22)	Not applicable/Not regulated
• IATA-DGR (66th)	Not applicable/Not regulated

• **14.3 Transport hazard class (es)**

• ADR/ADN/RID (2025 Edition)	Not applicable/Not regulated
• IMO/IMDG (41-22)	Not applicable/Not regulated
• IATA-DGR (66th)	Not applicable/Not regulated

• **14.4 Packing group**

• ADR/ADN/RID (2025 Edition)	Not applicable/Not regulated
• IMO/IMDG (41-22)	Not applicable/Not regulated

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• IATA-DGR (66th)	Not applicable/Not regulated
• 14.5 Environmental hazards	
• Environmentally hazardous (ADR/ADN/RID)	No
• Marine Pollutants (Yes/No)	No
• Special mark (ADR/ADN/RID)	No
• 14.6 Special precautions for user	Not applicable/Not regulated
• Danger code (Kemler)	Not applicable/Not regulated
• EMS number	Not applicable/Not regulated
• 14.7 Maritime transport in bulk according to IMO instruments	Not applicable/Not regulated

SECTION 15: Regulatory information

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

• MAK (German Maximum Workplace Concentration):

None of the ingredients are listed.

• Directive 2012/18/EU

• Named dangerous substances-ANNEX I:

None of the ingredients are listed.

• Seveso category:

Not applicable

• Qualifying quantity (tonnes) for the application of lower-tier requirements:

Not applicable

• Qualifying quantity (tonnes) for the application of upper-tier requirements:

Not applicable

• National regulations.

• Water hazard class:

WGK1 (German Regulation) (self-assessment): slightly hazardous to water.

• Other regulations, limitations and prohibitive regulations

• SVHC Candidate list of REACH Regulation Annex XIV Authorization:

None of the ingredients are listed.

• REACH Regulation Annex XVII Restriction:

None of the ingredients are listed.

• REACH Regulation Annex XIV Authorization List:

None of the ingredients are listed.

• 15.2 Chemical safety assessment:

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• 16.1 Indication of changes:

None.

• 16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

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International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Flam. Sol. 1: Flammable solids, hazard category 1

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit. 2: Skin corrosion/irritation, hazard category 2

Skin Sens. 1: Skin sensitization, hazard category 1

Skin Sens. 1A: Skin sensitization, hazard category 1A

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

Acute Tox. 2: Acute toxicity, hazard category 2

Resp. Sens. 1: Respiratory sensitization, hazard category 1

STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3

• **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:**

See section 2.1 (classification).

• **16.5 Relevant H- and EUH-phrases (number and full text):**

H228 Flammable solid

H302 Harmful if swallowed

H315 Causes skin irritation

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Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• 16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

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End of safety data sheet