Safety data sheet

In accordance with Annex II to the REACH Regulation – Regulation (EU) 2020/878

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

1.1. Product identifier

Trade name	**HAAAS poly-s**
Product name	**POLY - S**
Code	**MF.003735 – 1 L, MF.003770 – 10 L**
Chemical name and synonyms	**AQUEOUS MIXTURE OF SURFACTANTS**
UFI	**X800-G0KE-N00U-T7DS**

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

Description/Use	**CONCENTRATED NEUTRAL MAINTENANCE FLOOR CLEANER WITH PROTECTIVE EFFECT (GLOSSY MICRO-FILM) – HOUSEHOLD (CONSUMER) AND PROFESSIONAL USE**
Product category	PC35 – Washing and cleaning products
Sectors of use	SU21 – Consumer uses (private households); SU22 – Professional uses; SU3 – Industrial uses

Identified uses	**Industrial**	**Professional**	**Consumers**
Cleaning and maintenance of floors (manual, with a floor scrubber and with a robot vacuum and mop)	✓	✓	✓

Uses advised against

Do not use undiluted. Any use other than those identified above. Do not mix with other products.

1.3. Details of the supplier of the safety data sheet

Manufacturer / supplier	**Grup General ID S.R.L.** (manufacturer and owner of the HAAAS brand)
Address	B-dul Independenței nr. 134, Baia Mare, jud. Maramureș, România (Romania)
Telephone	+40 371 353 787
E-mail address of the competent person responsible for the SDS	contact@grupgeneralid.ro
Distributor in Spain	**Grup General PC, S.L.**, CIF B70875026, Calle de la Fuente de la Salud 18, 2.º D, 20006 Donostia-San Sebastián, Gipuzkoa, Spain · Tel. +34 629 143 683 · grupgeneral24@gmail.com

1.4. Emergency telephone number

Ireland: National Poisons Information Centre, Dublin: **+353 1 809 2166** (8 am–10 pm, 7 days a week).

Romania: Office for the International Health Regulations and Toxicological Information – National Institute of Public Health (INSP), str. Dr. Leonte Anastasievici nr. 1-3, Sector 5, Bucharest: **+40 21 318 36 06** (Monday to Friday, 8:00–15:00).

Emergency number (Ireland and the whole EU): **112**.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous in accordance with Regulation (EC) No 1272/2008 (CLP) and its subsequent amendments and adaptations. The product therefore requires a safety data sheet in accordance with Regulation (EU) 2020/878. More information on the health and/or environmental hazards can be found in sections 11 and 12.

Classification	**H statement**	**Text**
Serious eye damage, Category 1 (Eye Dam. 1)	H318	Causes serious eye damage.

2.2. Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP) and its subsequent amendments and adaptations.



Hazard pictogram: **GHS05**
Signal word: **Danger**

Hazard statements	
H318	Causes serious eye damage.
EUH208	Contains: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one (EC No 247-500-7) and 2-methyl-2H-isothiazol-3-one (EC No 220-239-6) (3:1) (Methylchloroisothiazolinone, Methylisothiazolinone), 4-tert-butylcyclohexyl acetate. May produce an allergic reaction.
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/eye protection/face protection.
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.
P501	Dispose of contents/container: product residues and non-empty packaging at a hazardous waste collection point; empty packaging in separate plastic collection, as per local regulations.

Contains

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether.

Additional statements on the label

Do not swallow. In case of accident call 112 or the Poisons Information Centre (Ireland): +353 1 809 2166 (8 am–10 pm).

Names used on the multilingual label (ES, EN, DE, FR, IT)

EUH208: Methylchloroisothiazolinone, Methylisothiazolinone, 4-tert-butylcyclohexyl acetate. Contains: Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether.

Labelling of contents in accordance with Regulation (EC) No 648/2004 on detergents

Less than 5 %	phosphonates, anionic surfactants
5 % or over but less than 15 %	non-ionic surfactants
Other components	colourants, perfumes (Coumarin, Linalool)
Preservatives	Methylchloroisothiazolinone, Methylisothiazolinone

2.3. Other hazards

According to the available data, the product does not contain PBT or vPvB substances at a concentration ≥ 0.1%. The product does not contain substances with endocrine disrupting properties at a concentration ≥ 0.1%.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Identification	Conc. % (x)	Classification according to Regulation (EC) No 1272/2008 (CLP)
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether CAS 166736-08-9	5 ≤ x < 9	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 oral: > 300 mg/kg
(2-methoxymethylethoxy)propanol CAS 34590-94-8 · EC 252-104-2 REACH registration No 01-2119450011-60	1 ≤ x < 5	Substance for which a Union workplace exposure limit has been established.

2-butoxyethanol CAS 111-76-2 · EC 203-905-0 · INDEX 603-014-00-0 REACH registration No 01-2119475108-36	0 ≤ x < 1	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315 LD50 oral: 1200 mg/kg; ATE inhalation (vapours): 11 mg/l
4-tert-butylcyclohexyl acetate CAS 32210-23-4 · EC 250-954-9 REACH registration No 01-2119976286-24	0 ≤ x < 1	Skin Sens. 1B H317
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one (EC 247-500-7) and 2-methyl-2H-isothiazol-3-one (EC 220-239-6) (3:1) (Methylchloroisothiazolinone, Methylisothiazolinone) CAS 55965-84-9 · INDEX 613-167-00-5 REACH registration No 01-2120764691-48	0 ≤ x < 0,0015	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071 Specific concentration limits: Skin Corr. 1C H314: ≥ 0.6%; Skin Irrit. 2 H315: ≥ 0.06%; Skin Sens. 1A H317: ≥ 0.0015%; Eye Dam. 1 H318: ≥ 0.6%; Eye Irrit. 2 H319: ≥ 0.06% ATE oral: 100 mg/kg; ATE dermal: 50.001 mg/kg; ATE inhalation (vapours): 0.501 mg/l; ATE inhalation (dusts/mists): 0.051 mg/l; ATE inhalation (gases): 100 ppm
Morpholine CAS 110-91-8 · EC 203-815-1 · INDEX 613-028-00-9	0 ≤ x < 0,02	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318 LD50 oral: 1050 mg/kg; ATE dermal: 1100 mg/kg; ATE inhalation (vapours): 11 mg/l

The full text of the hazard (H) statements is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Rinse immediately with plenty of water for at least 30–60 minutes, keeping the eyelids wide open. Seek medical advice immediately.

SKIN: Take off contaminated clothing. Wash the skin immediately with plenty of water (shower). If irritation or an allergic reaction occurs, seek medical advice.

INGESTION: Rinse the mouth and drink water. Do not induce vomiting unless expressly instructed to do so by a doctor. Seek medical advice immediately and show the label.

INHALATION: Move the person to fresh air, away from the scene of the accident. If breathing stops, give artificial respiration and call a doctor immediately.

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

Eye contact: pain, redness, profuse watering, blurred vision; risk of serious eye damage. Repeated skin contact: an allergic reaction may occur in sensitive individuals (contains isothiazolinones and 4-tert-butylcyclohexyl acetate). Ingestion: irritation of the mucous membranes, nausea.

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

Symptomatic treatment. After eye contact, an ophthalmological examination is required. Show the doctor the label or this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, foam, powder and water spray. **Unsuitable extinguishing media:** none in particular.

5.2. Special hazards arising from the substance or mixture

Avoid breathing combustion products.

5.3. Advice for firefighters

Cool the containers with water jets to prevent decomposition of the product and the release of substances potentially hazardous to health. Always wear full firefighting protective equipment. Collect the extinguishing water, which must not be discharged into the sewer system. Dispose of the contaminated water and the fire residues in accordance with the regulations in force. Equipment: open-circuit compressed-air self-contained breathing apparatus (EN 137), flame-retardant protective suit (EN 469), flame-retardant gloves (EN 659) and firefighters' boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if it is safe to do so. Wear suitable protective equipment (see section 8) to prevent contamination of skin, eyes and clothing. These instructions apply both to users and to emergency personnel.

6.2. Environmental precautions

Prevent the product from entering the sewer system, surface water and groundwater.

6.3. Methods and material for containment and cleaning up

Collect the spilled product in a suitable container; check the compatibility of the container (section 10). Absorb the remainder with inert absorbent material. Ventilate the area well. Dispose of the contaminated material in accordance with section 13.

6.4. Reference to other sections

Information on personal protection and disposal: sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Read the label and this safety data sheet before use. Avoid contact with the eyes; wear safety glasses and gloves when handling the concentrated product. Avoid release of the product into the environment. Do not eat, drink or smoke when using this product. Remove contaminated clothing before entering eating areas. Do not mix with other products.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original container, tightly closed, in a well-ventilated place protected from direct sunlight. Keep out of reach of children. Keep away from incompatible materials (section 10).

7.3. Specific end use(s)

Concentrated neutral detergent for the maintenance of all water-resistant surfaces, in particular glossy floors: PVC, linoleum, tiles, granite, protected or unprotected marble; sealed parquet only with a well-wrung mop. Household and professional use. Robot mop: 10 ml in a 4 L water tank (guide dose: 2.5 to 3.1 ml per litre of water); before use, check the robot manufacturer's instructions, as too much concentrate may leave marks. Manual mopping: 25 ml (1 dose) in 8–10 L of water (dilution 1:320–1:400). Floor scrubber (scrubber-dryer): max. 50 ml in 10 L of water. Intensive cleaning: 50–100 ml in 10 L of water, depending on soiling. Consumption approx. 0.1 ml/m² for wet mopping and 0.25 ml/m² for intensive cleaning. Use only diluted. Let dry before walking on the surface. No rinsing required.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Regulatory references: BGR – Наредба № 13 от 30 декември 2003 г. (изм. ДВ бр. 5 от 17 януари 2020 г.); DEU – TRGS 900, MAK- und BAT-Werte-Liste 2020; ESP – INSST, Límites de exposición profesional para agentes químicos en España (current edition); FRA – Valeurs limites d'exposition professionnelle, ED 984 – INRS; ITA – Decreto Legislativo 9 aprile 2008, n. 81; NLD – Arbeidsomstandighedenregeling, lijst van wettelijke grenswaarden; ROU – Government Decision (HG) No 53/2021 amending HG No 1.218/2006 and HG No 1.093/2006; SVN – Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu; GBR – EH40/2005 Workplace exposure limits (4th ed., 2020); EU – Directives (EU) 2022/431, 2019/1831, 2019/130, 2019/983, 2017/2398, 2017/164, Directives 2009/161/EU, 2006/15/EC, 2004/37/EC, 2000/39/EC, 98/24/EC, 91/322/EEC; TLV-ACGIH – ACGIH 2022.

(2-methoxymethylethoxy)propanol – occupational exposure limit values

Type	Country	TWA/8h mg/m³	TWA/8h ppm	STEL/15 min mg/m³	STEL/15 min ppm	Notes
TLV	BGR	308	50			SKIN
AGW	DEU	310	50	310	50	
MAK	DEU	310	50	310	50	
VLA-ED	ESP	308	50			Dermal route
VLEP	FRA	308	50			SKIN
VLEP	ITA	308	50			SKIN
TGG	NLD	300				
TLV	ROU	308	50			SKIN
MV	SVN	308	50			SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN

(2-methoxymethylethoxy)propanol – PNEC	
Fresh water	19 mg/l
Marine water	1,9 mg/l
Freshwater sediment	70,2 mg/kg/d
Marine sediment	7,02 mg/kg/d
Water, intermittent release	190 mg/l
STP microorganisms	4168 mg/l
Food chain (secondary poisoning)	NEA
Terrestrial compartment	2,74 mg/kg/d
Atmosphere	NPI

DNEL / DMEL (2-methoxymethylethoxy)propanol	Consumers				Workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation	NPI		NPI	37,2 mg/m³	NPI			308 mg/m³
Dermal				121 mg/kg bw/d				283 mg/kg bw/d

2-butoxyethanol – occupational exposure limit values

Type	Country	TWA/8h mg/m³	TWA/8h ppm	STEL/15 min mg/m³	STEL/15 min ppm	Notes
TLV	BGR	98	20	246	50	SKIN
AGW	DEU	49	10	98 (C)	20 (C)	SKIN
MAK	DEU	49	10	98	20	SKIN, Hinweis
VLA-ED / VLA-EC	ESP	98	20	246 (to be verified)	50	Dermal route
VLEP	FRA	49	10	246	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
TGG	NLD	100		246		SKIN
TLV	ROU	98	20	246	50	SKIN
MV	SVN	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

2-butoxyethanol – PNEC	
Fresh water	8,8 mg/l
Marine water	0,88 mg/l
Freshwater sediment	34,6 mg/kg
Marine sediment	3,46 mg/kg
Water, intermittent release	9,1 mg/l
STP microorganisms	463 mg/l
Food chain (secondary poisoning)	20 mg/kg
Terrestrial compartment	2,33 mg/kg

DNEL / DMEL 2-butoxyethanol	Consumers				Workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m³	426 mg/m³		59 mg/m³	246 mg/m³	1090 mg/m³		98 mg/m³
Dermal		89 mg/kg bw/d		75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d

Morpholine – occupational exposure limit values

Type	Country	TWA/8h mg/m³	TWA/8h ppm	STEL/15 min mg/m³	STEL/15 min ppm	Notes
TLV	BGR	36	10	72	20	
AGW	DEU	36	10	72	20	SKIN
MAK	DEU	36	10	72	20	
VLA-ED / VLA-EC	ESP	36	10	72	20	Dermal route
VLEP	FRA	36	10	72	20	
VLEP	ITA	36	10	72	20	SKIN
TGG	NLD	36		72		SKIN
TLV	ROU	36	10	72	20	
MV	SVN	36	10	72	20	SKIN
WEL	GBR	36	10	72	20	SKIN
OEL	EU	36	10	72	20	
TLV-ACGIH		71	20			SKIN

Legend: (C) = CEILING (ceiling value); INHALAB = inhalable fraction; RESPIR = respirable fraction; TORAC = thoracic fraction; VLA-ED = environmental limit value – daily exposure (Spain); VLA-EC = environmental limit value – short-term exposure (Spain). VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

8.2. Exposure controls

Consumer use (household use): when handling the concentrated product (dosing, decanting), wear household gloves and safety glasses to avoid splashes in the eyes. Once diluted according to the instructions, no other protective equipment is needed. Ensure normal ventilation of the room. Wash hands after use. Keep the product out of reach of children.

Professional use: appropriate engineering controls take priority over personal protective equipment; ensure good ventilation of the workplace, with effective local exhaust ventilation. Personal protective equipment must bear the CE marking. In workplaces where large quantities of concentrate are handled, it is recommended that an eyewash station or an emergency shower be available.

Hand protection: chemical-resistant protective gloves (EN ISO 374); for professional use, category III gloves. Choose the material according to compatibility, degradation, breakthrough time and permeation; check the resistance of the gloves before use.

Skin protection: professional users – long-sleeved work clothing and category I safety footwear (Regulation (EU) 2016/425, EN ISO 20344). Wash with soap and water after removing the equipment.

Eye protection: tight-fitting safety goggles (EN ISO 16321).

Respiratory protection: not required under normal conditions of use. Professional use: if the engineering controls do not keep exposure below the limit values, use a mask with a type A filter (class 1, 2 or 3 depending on the concentration, EN 14387); in an emergency, self-contained breathing apparatus (EN 137) or fresh-air hose breathing apparatus (EN 138). For selection, refer to standard EN 529.

Environmental exposure controls: emissions from production processes, including those from ventilation equipment, must be controlled in accordance with environmental protection legislation. Do not discharge the undiluted product into waters or the sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	liquid	
Colour	pink	
Odour	lavender	
Melting point / freezing point	not available	not relevant for the safety and classification of the product
Initial boiling point	> 100 °C	
Flammability	not flammable	
Lower / upper explosion limit	not available	not relevant for the safety and classification of the product

Flash point	not available	aqueous product, not flammable
Auto-ignition temperature	not available	not relevant for the safety and classification of the product
Decomposition temperature / SADT	not available	not relevant for the safety and classification of the product
pH (product as supplied)	approx. 7	
pH (1 % solution in water)	approx. 7	
Kinematic / dynamic viscosity	not available	not relevant for the safety and classification of the product
Solubility	soluble in water	
Partition coefficient n-octanol/water	not available	not relevant for the mixture
Vapour pressure	not available	not relevant for the safety and classification of the product
Relative density	1,01	
Relative vapour density	not available	not relevant
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes: the product is not classified for physical hazards. 9.2.2. Other safety characteristics: information not available. Oxidising properties: not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular hazards of reaction with other substances under normal conditions of use. (2-methoxymethylethoxy)propanol: forms peroxides in contact with air. 2-butoxyethanol: decomposes under the effect of heat. Morpholine: may give off heat in contact with strong oxidising agents, reducing agents, strong acids or strong bases.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are to be expected under normal conditions of use and storage. (2-methoxymethylethoxy)propanol: may react violently with strong oxidising agents. 2-butoxyethanol: may react dangerously with aluminium and with oxidising agents; forms peroxides in contact with air.

10.4. Conditions to avoid

None in particular; observe the usual precautions for chemical products. (2-methoxymethylethoxy)propanol: avoid exposure to heat sources. 2-butoxyethanol: avoid exposure to heat sources and naked flames.

10.5. Incompatible materials

Strong oxidising agents, strong acids, strong bases; aluminium (see 10.1 and 10.3).

10.6. Hazardous decomposition products

2-butoxyethanol: may give off hydrogen.

SECTION 11: Toxicological information

In the absence of experimental data on the product, the health hazards have been assessed on the basis of the properties of the substances it contains, according to the classification criteria (CLP Regulation). For the toxicological effects, take into account the concentrations of the hazardous substances indicated in section 3.

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

Metabolism, toxicokinetics, mechanism of action: information not available. Likely routes of exposure: contact with the eyes and skin when handling the concentrate. Delayed, immediate and chronic effects: see section 4.2. Interactive effects: information not available.

ACUTE TOXICITY – mixture	
ATE (inhalation)	Not classified (no significant components)
ATE (oral)	> 2000 mg/kg

ATE (dermal)	Not classified (no significant components)
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	
LD50 (oral)	> 300 mg/kg, rat (OECD 423)
(2-methoxymethylethoxy)propanol	
LD50 (oral)	> 5000 mg/kg, rat (OECD 401)
LD50 (dermal)	> 2000 mg/kg bw, rabbit
LC50 (inhalation, vapours)	3.35 mg/l/7h, rat, at a concentration of 100%
2-butoxyethanol	
LD50 (oral)	1200 mg/kg, guinea pig
LC50 (inhalation, vapours)	2.2 mg/l/4h, rat
ATE (inhalation, vapours)	11 mg/l – estimate according to Table 3.1.2 of Annex I to CLP (used to estimate the acute toxicity of the mixture)
4-tert-butylcyclohexyl acetate	
LD50 (oral)	5000 mg/kg, rat
LD50 (dermal)	> 5000 mg/kg, rabbit
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
LD50 (oral)	4467 mg/kg
ATE (oral)	100 mg/kg – estimate according to Table 3.1.2 of Annex I to CLP (used to estimate the acute toxicity of the mixture)
LD50 (dermal)	> 5000 mg/kg
ATE (dermal)	50.001 mg/kg – estimate according to Table 3.1.2 of Annex I to CLP (used to estimate the acute toxicity of the mixture)
Morpholine	
LD50 (oral)	1050 mg/kg, rat
LD50 (dermal)	500 mg/kg, rabbit
ATE (dermal)	1100 mg/kg – estimate according to Table 3.1.2 of Annex I to CLP
LC50 (inhalation, vapours)	35.1 mg/l/1h, rat
ATE (inhalation, vapours)	11 mg/l – estimate according to Table 3.1.2 of Annex I to CLP
Skin corrosion/irritation	The classification criteria are not met.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Not classified. May produce an allergic reaction in sensitive individuals (contains mixture of isothiazolinones, 4-tert-butylcyclohexyl acetate – EUH208).
Germ cell mutagenicity	The classification criteria are not met.
Carcinogenicity	The classification criteria are not met.
Reproductive toxicity	The classification criteria are not met. Effects on sexual function and fertility, on the development of the offspring and on or via lactation: information not available.
Specific target organ toxicity (STOT) – single exposure	The classification criteria are not met.
Specific target organ toxicity (STOT) – repeated exposure	The classification criteria are not met.
Aspiration hazard	The classification criteria are not met.

11.2. Information on other hazards

According to the available data, the product does not contain substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health that are under evaluation.

SECTION 12: Ecological information

The product is not classified as hazardous to the environment. Use it in accordance with good practice, avoiding its release into the environment. Notify the competent authorities if the product has reached watercourses or has contaminated soil or vegetation.

12.1. Toxicity

(2-methoxymethylethoxy)propanol	
LC50 – fish	> 1000 mg/l/96h, Poecilia reticulata (OECD 203)
EC50 – crustaceans	1919 mg/l/48h, Daphnia magna (OECD 202)
EC50 – algae / aquatic plants	> 969 mg/l/72h, Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC – crustaceans	> 0.5 mg/l, Daphnia magna, 22 days
2-butoxyethanol	
LC50 – fish	1464 mg/l/96h, Oncorhynchus mykiss (OECD 203)
EC50 – crustaceans	1800 mg/l/48h, Daphnia magna (OECD 202)
EC50 – algae / aquatic plants	911 mg/l/72h (OECD 201)
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
LC50 – fish	0,4 mg/l
EC50 – crustaceans	0.0052 mg/l/48h, Skeletonema costatum (OECD 201)
EC50 – algae / aquatic plants	0.22 mg/l/72h, Oncorhynchus mykiss (OECD 210)
Chronic NOEC – fish	0.098 mg/l, Oncorhynchus mykiss, 28 days
Chronic NOEC – crustaceans	0.00064 mg/l, Skeletonema costatum, 48h
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	
LC50 – fish	> 10 mg/l/96h, Brachydanio rerio (OECD 203)
EC50 – crustaceans	> 10 mg/l/48h, Daphnia magna (OECD 202, part 1)
EC50 – algae / aquatic plants	> 10 mg/l/72h, Scenedesmus subspicatus (OECD 201)
EC10 – algae / aquatic plants	> 1 mg/l/72h, Desmodesmus subspicatus (OECD 201)

12.2. Persistence and degradability

Morpholine	Solubility in water: 1000–10000 mg/l
(2-methoxymethylethoxy)propanol	Solubility in water > 1000 g/l. Readily biodegradable: 75% in 28 days (OECD 301F)
2-butoxyethanol	Solubility in water: 1000–10000 mg/l. Readily biodegradable
Mixture of isothiazolinones (3:1)	Inherently biodegradable (OECD 302B – OECD 303A)
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Readily biodegradable: > 60% in 28 days (OECD 301B)

The surfactants contained in this product comply with the biodegradability criteria laid down in Regulation (EC) No 648/2004.

12.3. Bioaccumulative potential

Morpholine	log Kow: −2.55; BCF < 0.65
(2-methoxymethylethoxy)propanol	log Kow: 0.006
2-butoxyethanol	log Kow: 0.81
Mixture of isothiazolinones (3:1)	log Kow: 0.71

12.4. Mobility in soil

Morpholine: soil/water partition coefficient −0.6196.

12.5. Results of PBT and vPvB assessment

According to the available data, the product does not contain PBT or vPvB substances at a concentration ≥ 0.1%.

12.6. Endocrine disrupting properties

According to the available data, the product does not contain substances included in the main European lists of potential or suspected endocrine disruptors with effects on the environment that are under evaluation.

12.7. Other adverse effects

Information not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Professional use / large quantities: product residues are hazardous waste. The hazardousness of waste containing the product must be assessed in accordance with the legislation in force. Disposal must be carried out through authorised waste management companies, in accordance with national and local regulations.

Household use (consumers): do not pour the concentrated product down the drain. Product residues must be taken to household hazardous waste collection points (civic amenity sites), in accordance with local rules. The diluted cleaning solution, used according to the instructions, may be discharged into the domestic sewer system.

Packaging: the completely empty packaging – PE-HD bottle (02) and PP cap (05) – goes to the separate collection of plastic packaging, according to local regulations. Packaging that still contains product must be treated as waste, in accordance with national regulations.

SECTION 14: Transport information

The product is not considered dangerous under the provisions in force on the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number or ID number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	No
14.6. Special precautions for user	Not applicable
14.7. Maritime transport in bulk according to IMO instruments	Information not relevant

SECTION 15: Regulatory information

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

Seveso category (Directive 2012/18/EU)	None
Restrictions – Annex XVII to Regulation (EC) No 1907/2006	Product: entries 3 and 40. Substances contained: entry 75.
Regulation (EU) 2019/1148 (explosives precursors)	Not applicable
Candidate List of substances (Art. 59 REACH)	According to the available data, the product does not contain SVHC substances at a concentration ≥ 0.1%.
Substances subject to authorisation (Annex XIV REACH)	None
Regulation (EU) No 649/2012 (export)	None
Rotterdam Convention	None
Stockholm Convention	None
Health checks	Exposed workers do not need to undergo health surveillance if the risk assessment shows that the risks to health and safety are slight and Directive 98/24/EC (as transposed into national law) is complied with.
Regulation (EC) No 648/2004 on detergents	The surfactants contained comply with the biodegradability criteria laid down in the Regulation. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer. Labelling of contents: see section 2.2.
Royal Decree 770/1999 (Spain) – detergents and cleaning products	Labelling statements: ‘Keep out of reach of children’ (covered by precautionary statement P102), ‘Do not swallow’ and ‘In case of accident, consult the Medical Toxicological Information Service, telephone 91 562 04 20’. See section 2.2.

Notification to poison centres (CLP, Annex VIII) UFI: X800-G0KE-N00U-T7DS

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the mixture. The uses covered by this safety data sheet are consumer use (SU21), professional use (SU22) and industrial use (SU3), product category PC35 – washing and cleaning products. The risk management measures are described in sections 7 and 8. The relevant information from the exposure scenarios of the substances has been included in sections 1.2, 7, 8, 9, 12, 15 and 16.

SECTION 16: Other information

Full text of the H statements and hazard classes referred to in sections 2–3

Flam. Liq. 3	Flammable liquid, Category 3
Acute Tox. 2 / 3 / 4	Acute toxicity, Category 2 / 3 / 4
Skin Corr. 1B / 1C	Skin corrosion, Category 1B / 1C
Skin Irrit. 2	Skin irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Sens. 1A / 1B	Skin sensitisation, Category 1A / 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic hazard, Category 1
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains (name of sensitising substance). May produce an allergic reaction.

Legend: ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; ATE – acute toxicity estimate; BCF – bioconcentration factor; CAS – Chemical Abstracts Service; EC – identification number in the European inventory of substances; EC50 – concentration producing an effect in 50 % of the test population; LC50 – lethal concentration 50 %; CLP – Regulation (EC) No 1272/2008; LD50 – lethal dose 50 %; DNEL – derived no-effect level; DMEL – derived minimal effect level; GHS – Globally Harmonised System of Classification and Labelling of Chemicals; IATA DGR – IATA Dangerous Goods Regulations; IMDG – International Maritime Dangerous Goods Code; IMO – International Maritime Organization; INDEX – number in Annex VI to CLP; INSST – National Institute for Safety and Health at Work (Spain); vPvB – very persistent and very bioaccumulative; NOEC – no observed effect concentration; OEL – occupational exposure limit; PBT – persistent, bioaccumulative and toxic; PC – product category; PNEC – predicted no-effect concentration; REACH – Regulation (EC) No 1907/2006; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL – short-term exposure limit; STP – sewage treatment plant; SU – sector of use; SVHC – substance of very high concern; TLV – threshold limit value; TWA – time-weighted average; UFI – unique formula identifier; VLA – environmental limit value (Spain); WGK – water hazard class (Germany).

General bibliography: Regulation (EC) No 1907/2006 (REACH); Regulation (EC) No 1272/2008 (CLP) and its adaptations to technical progress, including Regulations (EC) 790/2009, (EU) 286/2011, 618/2012, 487/2013, 944/2013, 605/2014, 2015/1221, 2016/918, 2016/1179, 2017/776, 2018/669, 2019/521, 2018/1480, 2020/217, 2020/1182, 2021/643, 2021/849, 2022/692; Regulation (EU) 2020/878; Regulation (EU) 2019/1148; Regulation (EC) No 648/2004; The Merck Index, 10th ed.; Handling Chemical Safety; INRS – Fiche toxicologique; Patty – Industrial Hygiene and

Toxicology; N.I. Sax – Dangerous Properties of Industrial Materials, 7th ed., 1989; IFA GESTIS website; ECHA website; INSST – Límites de exposición profesional para agentes químicos en España; SDS model database – Italian Ministry of Health and ISS (Istituto Superiore di Sanità), Italy.

Calculation methods for classification: physical hazards – criteria of the CLP Regulation, Annex I, Part 2 (data in section 9); health hazards – calculation methods of Annex I to CLP, Part 3, except for the cases indicated in section 11; environmental hazards – calculation methods of Annex I to CLP, Part 4, except for the cases indicated in section 12.

Note for the user: the information contained in this safety data sheet is based on the knowledge available at the date of the last revision. The user must verify that the information is suitable and complete for their specific use. This document does not constitute a guarantee of specific product properties. Since the use of the product is not under our direct control, the user is obliged to comply, under their own responsibility, with the legislation on hygiene and safety. We accept no liability for improper use. Provide adequate training for personnel who use chemical products.

Changes from the previous revision (Revision 20 of 31/10/2025): sections 1.1, 1.2, 1.3, 1.4, 2.2, 3, 4.2, 4.3, 7.3, 9.1, 11, 12 and 16 – addition of consumer use (household use); precautionary statements P101 and P102; trade name HAAAS poly-s; manufacturer's contact details; correction of the translations and of the substance names; full text of all H statements mentioned. **Update of 14/11/2026 (alignment with the final label):** current wording of precautionary statements P305+P351+P338 and P310 (2.2); statements required by Royal Decree 770/1999 and names used on the label (2.2 and 15.1); use in robot vacuum and mop cleaners (1.2). **Update of 27/11/2026 (at the manufacturer's request):** precautionary statement P501 (disposal) is added in section 2.2; updated address of the distributor in Spain (1.3).

English version: translation of the Spanish version of this revision. The emergency telephone number for Ireland has been added (1.4), and the label statements in section 2.2 are given as printed on the label in English. The occupational exposure limits listed in 8.1 and the regulatory references in 15.1 are those of the Spanish version.