SAFETY DATA SHEET

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: "RTH City Dish Wash Paris"
Product category: Dishwashing detergent
UFI code 2500-F0Y1-V006-TWEG

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

Identified uses: Dishwashing detergent.
Uses advised against: Do not use in ways other than those indicated or for purposes other than intended.

1.3. Details of the supplier of the safety data sheet:

UAB „Cosmowash"
Ežero st. 44, Piliuonos village, LT-53182, Kaunas district,
Lithuania
Tel: +370 612 55 114
Email: info@cosmowash.eu

Email address of the person responsible for the safety data sheet: saugosduomenulapai@gmail.com

1.4. Emergency telephone number:

Pharmacovigilance and Poison Information Department, Šiltnamių St. 29, LT-04130, Vilnius.
Tel. +370 5 236 2052 (24/7)
Website: https://www.vvkt.lt/ email: aib@vvkt.lt
General emergency number: **112**

2 section. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008:	Skin irritation, Category 2, H315 Skin sensitization, Category 1, H317 Serious eye damage, Category 1, H318

2.2. Labeling elements (according to Regulation (EC) 1272/2008):

Hazard pictogram(s):


GHS05


GHS07

Signal word:	Danger	
Hazard statements:	H315	Irritates the skin
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage

Precautionary statements:

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

	P102 Keep out of reach of children. P103 Read the label before use.
Prevention	P261 Avoid breathing mist/vapors/aerosol. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection (face protection).
Response	P302 + P352: IF ON SKIN: Wash with plenty of water. 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 or doctor. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains: SODIUM LAURETH SULFATE, DODECYLBENZENE SULFONIC ACID, BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, HEXYL CINNAMAL.

Additional labeling information:
EUH phrase(s): Not applicable.
Tactile warning of danger (TWD) and Child resistant fastenings (CRF) – Not applicable.
According to the European Parliament and Council Regulation (EC) No 648/2004:
5 – 15% anionic surfactants, < 5% non-ionic surfactants, preservatives: Benzisothiazolinone, Methylisothiazolinone, Laurylamine Dipropylenediamine, fragrances (Hexyl Cinnamal, Linalool, HHCB, Iso gamma super, Lynalyl acetate).
2.3. Other hazards: None
PBT and vPvB: Not applicable. Neither the mixture nor its components meet the criteria for PBT and/or vPvB according to Annex XIII of the REACH Regulation.
ED properties: : Not applicable. The product does not contain any substances listed under Article 59(1) as having endocrine disrupting properties with a concentration equal to or greater than 0.1% by weight.
The product does not contain substances identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at concentrations equal to or greater than 0.1% by weight.

3 section. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1. Substances: Not applicable: the product is a mixture
3.2. Mixtures: The product is a mixture. Components according to the requirements of Regulations No. 1907/2006 (REACH) and 1272/2008 (CLP).

Component / REACH Reg.	**INCI name**	**CAS / EC (Index) No.**	**Classification according to Regulation (EC) No. 1272/2008 (CLP)**	**Concentration %**
Distilled water / -	AQUA	7732-18-5 / 231-791-2 (-)	Does not meet classification criteria	86,69

Sodium lauryl sulfate / 01-2119488639-16-xxxx	SODIUM LAURETH SULFATE	68891-38-3 / 500-234-8 (-)	Skin irritation 2, H315 Serious eye damage 1, H318 (Specific concentration limits: Eye irritation Category 2 for 5% ≤ C < 10%; Eye damage Category 1 for C ≥ 10%)	<6,1
Benzene sulfonic acid, 4-C10-13-alkyl derivatives/ 01-2119490234-40-xxxx	DODECYLBENZENE SULFONIC ACID	85536-14-7 / 287-494-3 (-)	Acute toxicity. $_{oral}$ 4, H302 (ATE 1470 mg/kg) Skin Corr. 1C, H314 Eye dam. 1, H318 Chronic aquatic toxicity 3, H412	<3,3
Sodium hydroxide (50 %) / 01-2119457892-27-xxxx	SODIUM HYDROXIDE	1310-73-2 / 215-185-5 (011-002-00-6)	Skin Corr. 1A, H314 *((SCL:* *Skin Irrit. 2, 0.5% ≤ C < 2%;* *Eye Irrit. 2, 0.5% ≤ C < 2%;* *Skin Corr. 1B, 2% ≤ C < 5%;* *Skin Corr. 1A, C ≥ 5%)*	<0,4
Amides, C8-18 (even numbered) and C18-unsaturated, N,N-bis(hydroxyethyl)/ 01-2119490100-53- xxxx	–	68155-07-7 / 931-329-6 (-)	Skin Irrit. 2, H315 Eye Dam. 1, H318 Chronic Aquatic Toxicity 2, H411	<0,22
Carbamide / 01-2119463277-33-xxxx	UREA	57-13-6 / 200-315-5 (-)	Does not meet classification criteria	≤0,2
Diethanolamine / 01-2119488930-28-xxx	DIETHANOLAMINE	111-42-2 / 203-868-0 (603-071-00-1)	Acute tox. oral 4, H302 (ATE 500 mg/kg) Skin irrit. 2, H315 Eye damage 1, H318 Repro. 2, H361fd STOT RE 2, H373	<0,08
Glycerol / 01-2119471987-18-xxxx	GLYCERIN	56-81-5 / 200-289-5 (-)	Does not meet classification criteria	<0,03
α-hexylcinnamaldehyde / -	HEXYL CINNAMAL	101-86-0 / 202-983-3 (-)	Skin sensit. 1, H317 Acute aquatic tox. 1, H400 (M=1) Chronic aquatic tox. 2, H411	<0,022
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-heksamethylindeno[5,6-c]pyrane galaxolid (HHCB) / 01-2119488227-29-xxxx	HEXAMETHYL INDANOPYRAN	1222-05-5 / 214-946-9 (603-212-00-7)	Acute aquatic toxicity 1, H400 (M=1) Chronic aquatic toxicity 1, H410 (M=1)	<0,02
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (ISO GAMMA SUPER) / -	TETRAMETHYL ACETYLOCTA HYDRO NAPHTHALENES	54464-57-2 / 259-174-3 (-)	Skin irritation 2, H315 Skin sensitization 1, H317 Chronic aquatic toxicity 1, H410 (M=1)	<0,008
3,7-dimethyl-1,6-oktadien-3-ol / 01-2119474016-42-xxxx	LINALOOL	78-70-6 / 201-134-4 (603-235-00-2)	Skin irritation 2, H315 Skin sensitization 1B, H317 Eye irritation 2, H319	<0,007

3,7-Dimethyl octa-1,6-diene-3-yl acetate / 01-2119454789-19-xxxx	LINALYL ACETATE	115-95-7 / 204-116-4 (-)	Skin irrit. 2, H315 Skin sensit. 1B, H317 Eye irrit. 2, H319	<0,006
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine / 01-2119980592-29-xxxx	LAURYLAMINE DIPROPYLENE DIAMINE	2372-82-9 / 219-145-8 (-)	Acute tox. $_{oral}$ 3, H301 (ATE 100 mg/kg) Skin corrosion 1B, H314 STOT RE 2, H373 Acute aquatic toxicity 1, H400 (M=10) Chronic aquatic toxicity 1, H410 (M=1)	≤0,003
1,2-benzizotiazol-3(2H)-one / 01-2120761540-60-xxxx	BENZISOTHIAZOLINONE	2634-33-5 / 220-120-9 (613-088-00-6)	Acute tox. $_{oral}$, H302 (ATE 500 mg/kg) Skin irritation 2, H315 Serious eye damage 1, H318 Skin sensitization 1, H317 (SCL: Skin sensitization 1, H317 ≥ 0.05%) Acute aquatic toxicity 1, H400 (M=10)	≤0,0027
2-methyl-2H-isothiazol-3-one / 01-2120764690-50-xxxx	METHYLISOTHIAZOLINONE	2682-20-4 / 220-239-6 (613-326-00-9)	Acute toxicity oral 3, H301 (ATE 100 mg/kg) Acute toxicity dermal 3, H311 (ATE 300 mg/kg) Acute toxicity inhalation (dust/mist) 2, H331 (0.05 mg/l) Skin corrosion 1B, H314 Serious eye damage 1, H318 Skin sensitization 1A, H317 (SCL: Skin sensitization 1, H317 ≥ 0.0015%) Acute aquatic toxicity 1, H400 (M=10) Chronic aquatic toxicity 1, H410 (M=1)	≤0,0027

The full text related to hazard (H) phrases is provided in section 16.6.

4 section. FIRST AID MEASURES

4.1. Description of first aid measures:

General information: Contact a doctor or the Pharmacovigilance and Poison Information Department if poisoning with the product is suspected or confirmed, tel.: +370 5 236 20 52. If the victim has lost consciousness, do not give anything to drink or put anything in the mouth. Use personal protective equipment when providing first aid. Remove contaminated clothing and wash it before putting it back on.

After inhalation: Remove the victim to fresh air. The body position should be such that breathing is possible freely and easily. Remove clothing that hinders breathing (scarves, neckties, etc.). If you feel unwell or develop symptoms, seek medical attention.

After skin contact: Remove contaminated clothing, wash the affected area with plenty of lukewarm, running water, using appropriate detergents (mild soap, body wash, etc.). Seek medical attention if symptoms occur.

In case of eye contact: Do not rub the eyes, tilt the head back, open the eyelids wide and rinse/flush with plenty of water, also under the eyelids. If possible, remove contact lenses and rinse/flush again with water. Rinse/flush for at least 15 minutes. Immediately contact a medical professional/eye doctor.
Ingestion: If swallowed, rinse mouth with water until taste of product is gone. Do not induce vomiting. If symptoms occur, contact a medical professional/seek medical attention.

4.2. The most important acute and delayed symptoms and signs::
Eyes: corneal/retinal damage, burning, pain, partial or irreversible damage to the eyeball, tearing, partial vision or developing blindness, increased sensitivity to light, swelling of the eyelids.
Ingestion: choking, shortness of breath, nausea, dizziness, weakness, irritation of the throat, mouth, esophagus, gastrointestinal tract, abdominal pain/irritation, diarrhea.
Skin: skin redness, stinging, itching, rash, allergy, irritation.
Įkvėpus: headache, dizziness, cough, general weakness, difficulty breathing, wheezing.

4.3. Indication of any immediate medical attention and special treatment needed: Gydymas simptominis, galimas ilgalaikis / tęstinis poveikis, atitinkamas medicininis stebėjimas rekomenduojamas iki 48 valandų po nelaimingo atsitikimo.

5 section. FIRE FIGHTING MEASURES

5.1. Fire-fighting measures: Dry chemicals, sand, dolomite, carbon dioxide, dry powder, water spray, water mist. Extinguish larger flames with alcohol-resistant foam.
Unsuitable measures: high water jet.

5.2. Special hazards arising from the substance or mixture: During a fire, harmful/irritating gases/vapours are released, which can form explosive air-vapour mixtures with air. Firefighting waste, extinguishing solutions, and other waste generated during firefighting can pollute the environment.

5.3. Tips for firefighters: if necessary, cool the containers by spraying them with water. Seal possible leaks, isolate the fire extinguishing area, collect/isolate fire extinguishing waste, extinguishing solutions, other fire extinguishing products, prevent them from entering the environment, domestic sewage.
Protective equipment: Wear appropriate firefighting clothing and use self-contained breathing apparatus. Firefighting clothing (including helmets, safety boots and gloves) complying with European Standard EN 469 will provide a basic level of protection in chemical accidents.

6 section. ACCIDENT RESPONSE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel: Do not inhale or swallow. Avoid contact with skin and eyes. Evacuate the incident area safely as quickly as possible, follow instructions from emergency responders. If possible, wash and change clothes.
6.1.2. For helpers: If the product is spilled, stop work, evacuate people not involved in the emergency response. Disconnect electricity, equipment, heat sources, isolate/localize the accident site. Ensure that favorable combustion conditions do not occur. Provide an opportunity to wash, collect contaminated clothing, store separately/isolate if possible. Provide proper/adequate exhaust ventilation. Avoid contact with eyes, inhalation, and skin contact. Wear chemically resistant protective clothing, tight goggles, gloves

(Section 8). Ensure that isolation/localization and handling/cleaning operations are performed only by appropriately trained personnel.

6.2. Environmental precautions: Avoid direct contact of the product with soil, water bodies, drainage systems. In case of large spills, isolate the accident site, inform the relevant authorities, call the fire and rescue service.

6.3. Isolation and cleaning procedures and equipment: stop the spread, absorb the spilled product with sand, gravel, universal binder, other non-combustible, absorbent material, sweep / scoop up and place in a suitable, marked, tightly closed container, resistant to the product. Dispose of in accordance with the requirements of national legislation (section 13). Wash off traces of residues with water. Collect the resulting cleaning solutions mechanically / manually or technically / automatically. Dispose of in accordance with the requirements of legislation. In case of large spills, isolate the accident site, install barriers or protective embankments, prevent the spilled product from entering drains, waterways, basements, other enclosed spaces. Do not dispose of as household waste. If the product enters the sewer and / or surface / groundwater, if it is spread in large quantities and / or over a large area - inform the relevant authorities.

6.4. Reference to other sections: Information on safe handling and storage is provided in Section 7; Information on personal protection measures is provided in Section 8; Information on material disposal is provided in Section 13.

7 section. USE AND STORAGE

7.1. Precautions for safe use

7.1.1. Specific recommendations:

Information on safe use: Follow the recommendations given in Section 8; dispose of according to the instructions in Sections 6.3 and 13. Contaminated work clothing must not be taken out of the workplace.

Information on protection against fire and explosion: It is recommended to ground and bond the container and receiving equipment and to use explosion-proof electrical/ventilation/lighting etc. equipment. It is recommended to use non-sparking tools. Take measures to avoid static discharge.

Containers must not be welded, heated, cut, drilled, knocked, thrown, ground, damaged, rubbed or otherwise physically affected. Keep fire extinguishers in easily accessible places. Install fire alarms, ensure that non-flammable absorbent materials are easily accessible.

Measures to prevent aerosol and dust formation: Ensure adequate ventilation, take care to avoid high concentrations of vapors/aerosols in the working air.

Incompatible materials: explosive, oxidizing, flammable, corrosive, alkaline/acidic substances, alcohols, amines, metal powders.

Environmental protection measures: Do not allow to enter the environment, surface/groundwater, drainage systems. Prevent from wide spread on land.

7.1.2. Information on occupational hygiene: Do not eat, smoke or drink when using. Wash hands before breaks and after handling the product. Avoid contact with eyes, skin or clothing. Do not inhale, swallow or drink. Remove clothing after work and clean/wash before re-wearing. Follow good hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for warehouses and containers: Store in a ventilated place. Keep container tightly closed away from food, drink and animal feed, in an upright position, protected from falling, in a dry, cool place,

inaccessible to unauthorized personnel. Containers must be properly labeled, original, and protect the product from external air, water, sunlight and/or mechanical impurities.
It is forbidden to weld, heat, cut, drill holes in the packaging, both with and without the product. Protect from freezing, physical impact, friction, significant changes in pressure. Avoid direct sunlight, heat, ignition sources, hot surfaces. Floors must be installed in such a way that in the event of accidental spillage, the product cannot spread widely. Warehouses must be equipped with appropriate mechanical/exhaust ventilation. Equipment and absorbent materials must be prepared for use at the storage location to isolate/collect/clean up spilled product. Fire extinguishers and/or other fire extinguishing equipment must be easily and quickly accessible. Storage temperature +5 - +25 ^{o}C.
Instructions for improper storage in a single shared storage facility: Avoid contact with unpackaged chemicals. Do not store together with: explosive substances; compressed gases, liquefied and pressurized solutions; flammable liquids and solids; organic peroxides and other oxidizing substances; substances that release flammable gases when exposed to water; alkaline and corrosive substances.
Other information about storage conditions: Ensure that even a small amount of the product is not spilled. Do not pour the residue back into the packaging to avoid contamination of the product and shortening its shelf life. Do not dispose of in landfills and/or drains. Empty packaging contains product residue and may be hazardous.

7.3. Specific end use(s): No other uses are foreseen except as indicated in section 1.2.

8 section. EXPOSURE PREVENTION (PERSONAL PROTECTION)

Additional measures must be implemented when using personal protective equipment (PPE): the duration of work (exposure time) should reflect the additional physiological stress on the worker due to the PPE used. In addition, it is considered that the use of certain PPE reduces the worker's ability to use tools and communicate. For these reasons, the worker should be: healthy (in particular taking into account health problems that may affect the use of PPE) and the tightness/seal between the body and the PPE must be ensured (taking into account factors such as scars, hairiness, etc.).
When the concentration of the substance in the workplace is determined and known, PPE is applied in accordance with the established concentration of the chemical occurring in the workplace, taking into account the duration of the worker's exposure and the operating conditions. In the case where the concentration of the substance in the workplace is not known, PPE must be used in accordance with the highest recommended protection class.
The employer must ensure that the PPE used is suitable for all work foreseen under the operating conditions (cleaning, maintenance, repair, de-activation, etc.).
The employer and the self-employed are legally responsible for the issuance and management of PPE for its proper use in the workplace. They should therefore define and document a policy for the proper use of PPE, including training of employees.

8.1. Control parameters
8.1.1. Occupational exposure limits (OEL): not established for the mixture.
Components for which occupational exposure limit values have been established according to the Hygiene Standard of the Republic of Lithuania 23:2011 “Occupational Exposure Limits for Chemical Substances. General Requirements for Measurement and Exposure Assessment”, the current version:

Name	CAS Nr.	IPRD	IPRD	TPRD	TPRD	NRD	NRD	Notation

		mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	
Sodium hydroxide	1310-73-2					2		acute effect
Urea (carbamide, urea)	57-13-6	10	-	-	-	-	-	-
Diethanolamine	111-42-2	15	3	30	6	-	-	the substance can penetrate the body through intact skin

8.1.2. Recommended monitoring and control procedures: Ensure continuous/regular monitoring of technical parameters in accordance with the technical specifications/instructions provided/available for the equipment. When performing monitoring/control procedures, follow the established "Regulations on the Protection of Workers from Chemical Agents at Work" of the Republic of Lithuania, the current valid version. Other valid standards in EU countries:
EN 689 Occupational exposure - Measurement of exposure to chemical agents by inhalation.
EN 14042 Workplace atmosphere - Procedures for assessing exposure to chemical and biological agents.
EN 482 Workplace atmosphere - General requirements for measurement procedures for chemical agents

8.1.3. Biological Limit Values (BLV): None established for the mixture.
8.1.4. Derived No Effect Level (DNEL) and Predicted No Effect Concentration (PNEC): None established for the mixture.

DNELs of components:

Component	**Mode of action**	**Employees**	**General population**
		Systemic – long-term effects	**Systemic – long-term effects**
Sodium lauryl sulfate (68891-38-3)	Inhalation (mg/m3), repeated dose toxicity	411	87,1
	Dermal (mg/kg), repeated dose toxicity	5830	2500
	Ingestion (mg/kg), repeated dose toxicity	-	25
Benzenesulfonic acid (85536-14-7)	Inhalation (mg/m3), repeated dose toxicity	7,6	1,3
	Dermal (mg/kg), repeated dose toxicity	119	42,5
	Ingestion (mg/kg), repeated dose toxicity	-	0,425

PNECs of components:

Component	**Water (mg/L)**		**Intermediate discharges (mg/L)**		**STP (mg/L)**	**Sediments (mg/kg)**		**Soil (mg/kg)**	**Secondary poisoning (mg/kg)**
	Fresh water	**Sea water**	**Fresh water**	**Sea water**		**Fresh water**	**Sea water**		
Natrio laurilsulfatas (68891-38-3)	0,129	0,013	0,71	0,071	1000	4,835	0,483	7,5	-
Benzensulfonrūgštis (85536-14-7)	0,268	0,027	0,017	-	3,43	8,1	6,8	35	-

8.1.5. Qualitative risk assessment and risk management in the work environment: then performing qualitative risk assessment and risk management in the work environment, individual monitoring of the work environment and/or biological factors may be required in order to assess the adequacy of risk management measures and/or operating conditions and various controlled parameters.

8.2. Exposure control
8.2.1. Information about hardware customization: the duration of work is not limited (up to 480 minutes per shift, 5 shifts per week). Ensure regular control of the air quality of the working environment, carry out continuous monitoring of parameters according to technical ventilation requirements. Ensure that eye/hand

washing equipment is available near the workplaces, safety showers are recommended. Maintain good industrial hygiene.

8.2.2. General protection and hygiene measures: Wear personal protective equipment. Do not eat, drink or smoke at the workplace to prevent the product from getting on the skin, in the mouth or in the eyes. Wash hands before breaks and after work using appropriate means (soap, etc.). After finishing work, remove contaminated/dirty clothes, shoes, glasses and other contaminated items and thoroughly clean/wash them with appropriate detergents/washing agents (powder, etc.) before using them again. Use certified protective equipment that meets EU requirements and standards, or their equivalents, when risks cannot be avoided or sufficiently limited by technical collective protective measures, methods and work organization procedures.

Eye/face protection

EN 166 standard: provides adequate eye protection.
Mechanical resistance: S (increased resistance)
Protection against specific risks 3 (protection against liquid droplets and splashes).

Hand and skin protection

EN ISO 374 standard: Protective gloves against hazardous chemicals and microorganisms.
Type C (Gloves that provide resistance to penetration against at least 1 chemical from the specified list, with a penetration time of at least 10 minutes).
Suitable glove material: nitrile, neoprene, butyl rubber, natural rubber latex.
Glove thickness for short-term exposure: 0.1 mm, breakthrough time >240 min.
Glove thickness for long-term exposure: 0.15 - 0.2 mm, breakthrough time >480 min.
If there is a risk of mechanical damage to the gloves, consider standard EN 388.
If there is a risk of thermal exposure, consider standard EN 407.

Other body protection measures

EN 14605 standard: protective clothing against liquid chemicals, including resistance to penetration by liquids and liquid aerosols.
Type 4 (Spray-proof clothing - protection against liquid splashes).

EN ISO 20345 standard: protective footwear against mechanical hazards and other risks.
Type SB (Basic safety footwear with toe protection).

Respiratory protective equipment

When selecting the appropriate respiratory protective equipment and/or the level of protection of the filter(s), it is necessary to take into account the known or anticipated exposure, the physical state, the route and/or level of exposure, and other criteria such as the hazards of the product and the safe working limits for the selected respiratory protective equipment. In case of insufficient ventilation, increased

exposure, improperly adjusted ventilation and/or long-term/constant exposure, the use of individual respiratory protective equipment is recommended.

EN 149 standard: Filtering half masks (FFP) for protection against particles, intended for use for one shift only. Only if there is no exposure to gases/vapours.
Filtration efficiency classes:

- ✓ FFP1: Filters at least 80% of airborne particles.
- ✓ FFP2: Filters at least 94% of airborne particles.
- ✓ FFP3: Filters at least 99% of airborne particles.

EN 1827 standard: Half mask without inhalation valves and with separable filters, intended for protection against gases, gases and particles or particles only. To be used only with filters specified by the manufacturer. Marked according to the filter type and applicable class and marked FM.
EN 405 standard: Filtering half mask with valves for protection against gases or gases and particles. Used with filters for specific gases or combined gas and particle filters.
Filter types: Gas/Vapor Filters (ABEK 1/2/3): Protects against specific types of gases and vapors:

- ✓ A: Organic gases and vapours with a boiling point above 65 °C.
- ✓ B: Inorganic gases and vapors (e.g. chlorine, hydrogen sulfide).
- ✓ E: Acidic gases and vapors (e.g. sulfur dioxide, hydrogen chloride).
- ✓ K: Ammonia and organic ammonium derivatives.

1. Combined filters (ABEK 1/2/3 + P 1/2/3): Provides protection against both particles and gases/vapours. They are marked to indicate their capabilities/effectiveness.

EN 143 standard: Particle filters used in combination with a half mask and/or full face mask (standards EN 1827 and EN 405). Not applicable to FFP masks (standard EN 149).
Filtration efficiency:
• P1: Filters at least 80% of airborne particles.
• P2: Filters at least 94% of airborne particles.
• P3: Filters at least 99% of airborne particles.

Protection against thermal hazards: usual precautions when working with chemical mixtures/substances.

8.2.3. Environmental impact control: Check emissions from ventilation and production equipment to ensure compliance with environmental legislation. In some cases, it may be necessary to install fume filters, engineering improvements, scrubbers or modify the work process/equipment to reduce emissions to acceptable levels.
Air: The control of the product's impact on ambient air must be carried out in accordance with the existing general methodology for calculating dust particle emissions and established legal acts.
Water: The control of the product's impact on environmental water must be carried out in accordance with the wastewater discharge procedure and established methods/criteria for calculating environmental release.
Soil and terrestrial environment: The control of the product's impact on soil and the terrestrial environment must be carried out in accordance with the wastewater discharge procedure and established methods/criteria for calculating environmental release.

9 section. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Light yellow - yellow liquid
Odour:	Characteristic, pleasant, aromatic
Odour threshold	Not applicable
pH value	Neutral (pH 6.1)
Melting/freezing point	No data available
Initial boiling point and boiling range	>100 oC at 1013 hPa
Flash point	>70 0C at 1013 hPa
Evaporation rate	No data available
Flammability	Not applicable
Upper (lower) flammability or explosive limits	Not applicable
Vapour pressure	Not applicable/no data available
Vapour density	Not applicable/no data available
Relative density:	1.033 kg/m3 (20oC)
Solubility in water	Unlimited
Partition coefficient: n-octanol/water	2.5 - 7.5 (depending on ingredients)
Auto-ignition temperature	>235oC at 101 325 Pa
Decomposition temperature	Not applicable/no data available
Viscosity (kinematic)	>20.5 mm2/s (40oC)
Explosive properties;	Non-explosive
Oxidising properties	Not applicable

9.2. Other information

9.2.1. Information on physical hazard classes:

Physical hazard class(es) – The product is not assigned to any physical hazard class according to the UN RDPKV Manual of Tests and Criteria and the test methods set out in Part A of Regulation No 440/2008.

Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidizing gases	Not applicable
Compressed gases	Not applicable
Flammable liquids	DIN EN ISO 2719 - Closed cup method. Determination of flash point.
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures which emit flammable gases in contact with water	Not applicable
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable

Organic peroxides	Not applicable
Metal corrosives	Not applicable
Desensitized explosives	Not applicable

9.2.2. Other safety characteristics: Not applicable.

10 section. STABILITY AND REACTIVITY

10.1. Reactivity: Stable under recommended conditions of use and storage.
10.2. Chemical stability: Stable under recommended conditions of use and storage.
10.3. Possibility of hazardous reactions: Under recommended conditions of use and storage, hazardous reactions do not occur.
10.4. Conditions to avoid: Moisture, contamination/reaction with flammable substances, alkalis, strong acids, oxidizers, alcohols, amines, high/low temperatures, heat/cold sources, open flames, hot/cold surfaces, freezing.
10.5. Incompatible materials: explosive, oxidizing, flammable, corrosive, alkaline/acidic substances, alcohols, amines.
10.6. Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products are not formed. Combustion products (carbon oxides, nitrogen oxides, sulfur oxides, phosphorus oxides) are released during combustion.

11 section. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute toxicity: The product is not classified as acutely toxic/harmful by ingestion, inhalation and/or dermal route according to the criteria set out in the CLP Regulation (Annex I, Section 3.1). Based on available data, the classification criteria are not met. Based on the principle of calculating the components and their concentrations taking into account the derived/determined acute toxicity estimates.
ATE_{mix} (oral) >5000 mg/kg
ATE_{mix} (dermal) >5000 mg/kg
ATE_{mix} (inhalation) >20 mg/l (dust/mist)

Skin corrosion/irritation: The product is classified as irritating to the skin based on the criteria set out in Annex I to the CLP Regulation (section 3.2). Based on the available data, the classification criteria are met. Based on the principle of calculating the components and their concentrations taking into account the established generic and specific concentration limits.
Serious eye damage/irritation: The product is classified as causing serious eye damage based on the criteria set out in Annex I to the CLP Regulation (section 3.3). Based on available data, the classification criteria are met. Based on the principle of calculating the components and their concentrations taking into account the established generic and specific concentration limits.
Respiratory sensitisation: The product is not classified as a respiratory sensitiser based on the criteria set out in Annex I to the CLP Regulation (section 3.4). Based on the calculation principle of the components and their concentrations taking into account the established generic and specific concentration limits.
Skin sensitisation: The product is classified as a skin sensitiser based on the criteria set out in Annex I to the CLP Regulation (section 3.4). Based on the calculation principle of the components and their concentrations taking into account the established generic and specific concentration limits.

Mutagenicity / Carcinogenicity / Reproductive toxicity: The product is not classified as mutagenic / carcinogenic / toxic for reproduction based on the criteria set out in Annex I to the CLP Regulation (sections 3.5. / 3.6. / 3.7.). Based on the available data, the classification criteria are not met. Based on the calculation method of the components and their concentrations taking into account the established generic and specific concentration limits.
STOT SE / STOT RE: The product is not classified as specific target organ toxicant (single/repeated exposure) in accordance with the criteria set out in Annex I to the CLP Regulation (sections 3.8. / 3.9). Based on the available data, the classification criteria are not met. Based on the calculation principle of the components and their concentrations taking into account the established generic and specific concentration limits.
Aspiration hazard: The product is not classified as posing an aspiration hazard based on the criteria set out in Annex I to the CLP Regulation (section 3.10). Based on available data, the classification criteria are not met. Based on the principle of calculating the components and their concentrations.
Symptoms related to the physical, chemical and toxicological properties and delayed, acute and chronic effects from short and long-term exposure to the substance: Long-term exposure to exposed skin may cause allergies, skin sensitization, skin drying and/or cracking. May cause slight skin irritation, stinging, redness, rashes. Eye contact may cause eye damage, severe pain, burning, vision problems, temporary/permanent blindness. Effects may also include eye irritation, redness, increased blinking, tearing. Acute/chronic poisoning may cause respiratory tract irritation, rapid breathing, nausea, vomiting, headache and dizziness. In exceptional cases, increased blood pressure, spasms, convulsions, seizures, respiratory failure, arrhythmia, impaired coordination, loss of consciousness.

11.2. Information about other hazards
Endocrine disruptors: The product does not contain substances listed in accordance with Article 59(1) as having endocrine disrupting properties in a concentration equal to or greater than 0.1% by weight.
The product does not contain substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1% by weight.

12 section: ECOLOGICAL INFORMATION

12.1. Acute/chronic ecotoxicity to the environment
Acute ecotoxicity: The product is not classified as acutely very toxic to the aquatic environment based on the criteria set out in Annex I to the CLP Regulation (section 4.1). Based on available data, the classification criteria are not met.
Chronic eco-toxicity: The mixture is not classified as toxic/harmful to the aquatic environment in the long term, based on the criteria set out in Annex I to the CLP Regulation (section 4.1). Based on the available data, the classification criteria are not met.
Based on the principle of calculating the components and their concentrations, taking into account the established M-factors and multiplication factors.
12.2. Persistence and degradability: the degree of degradation of the final product (mixture) is not determined. The main components of the product are readily biodegradable, exhibit spontaneous decomposition, the degree of degradation >70% DOC in 28 days (based on dissolved organic carbon). The degree of biodegradation of the surfactants contained in the detergent complies with the requirements of the Detergents Regulation No. 648/2004/EC.
12.3. Bioaccumulative potential: The bioaccumulation potential of the final product (mixture) is not determined. The main component of the product has no bioaccumulation potential (log Pow <3; BCF <500).

12.4. Mobility in soil: The mobility of the final product (mixture) in soil has not been determined. The rate of accumulation and leaching in soil depends on many environmental factors including but not limited to soil type, groundwater depth, atmospheric conditions, etc. and may therefore vary depending on specific conditions.

12.5. Results of PBT and vPvB assessment: PBT: not applicable; **vPvB**: not applicable. Neither the mixture nor the components of the mixture meet the PBT and/or vPvB criteria according to Annex XIII of the REACH Regulation.

12.6. Endocrine disrupting substances: The product does not contain substances listed in accordance with Article 59(1) as having endocrine disrupting properties in a concentration equal to or greater than 0.1% by weight.

The product does not contain substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1% by weight.

12.7. Other undesirable effects: Large quantities can disrupt the natural balance of aquatic ecosystems and ecosystem cycles. Large quantities released into the environment can have a negative impact on plants, plankton, and other living things.

13 section. WASTE MANAGEMENT

13.1. Waste management methods

Recommendations: Do not pour waste into local or storm sewers, surface water bodies, or the natural environment. Do not dispose of with household waste or discharge into drains. Waste must be managed in accordance with the Waste Management Rules and the Waste Management Law

Hazardous properties (HP) of the waste are assigned: HP4 (Irritant).

Waste management code: 20 01 29* detergents containing dangerous substances (VP).

Note: Depending on the use and the waste generated, the final waste management code is assigned by the final waste holder/manager, taking into account the determined toxicity and physical-chemical properties of the waste based on the relevant waste identification methods as defined in EU and national legislation.

Contaminated packaging: Completely empty the packaging and dispose of in accordance with the Law on Packaging and Packaging Waste Management.

Packaging waste management code: 15 01 10* packaging containing residues of or contaminated by dangerous substances (VP).

Warning: Empty containers may contain residues of substances that are dangerous. Do not attempt to refill or clean containers without proper instructions. Empty containers must be reused, recycled, disposed of or returned to a contractor who carries out such work and is appropriately licensed in accordance with applicable legislation.

14 section. TRANSPORT INFORMATION

The product is not subject to the requirements and classification for the transport of dangerous goods (ADN/MDG, ADR/RID).

		ADR – Road **RID – Railway**	**ADNR – Waterways** **IMDG – Seaways**
14.1.	UN number	-	
14.2.	Proper shipping name	-	
14.3.	Transport hazard class	-	

14.4.	Classification code	-
14.5.	Packing group	-
14.6.	Danger labels	-

Transport of bulk cargo according to IMO measures: Not applicable

15 section. REGULATORY INFORMATION

15.1. Safety, health and environmental legislation specific to the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

- ✓ SVHC (Candidate List of Substances of Very High Concern): Not applicable
- ✓ REACH Annex XIV (list of substances subject to authorisation): Not applicable
- ✓ REACH Annex XVII (list of restricted substances): Not applicable

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

Regulation (EC) No 648/2004/EC of the European Parliament and of the Council of 31 March 2004 (Detergents Regulation):

5 - 15% anionic surfactants, < 5% nonionic surfactants, preservatives: Benzisothiazolinone, Methylisothiazolinone, Laurylamine Dipropylenediamine, fragrances (Hexyl Cinnamal, Linalool, HHCB, Iso gamma super, Lynalyl acetate).

European Commission Regulation (EC) 2020/878 of 18 June 2020 (SDS requirements)
European Commission Regulation (EC) No 440/2008 of 30 May 2008 (Test methods)
Regulation (EC) No 2016/425 of the European Parliament and of the Council of 9 March 2016 (Personal protective equipment)
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 (Waste)
Directive 2010/75/EC of 24 November 2010 (IPPC)
Directive 2004/42/EC of 21 April 2004 (VOCs)
4 July 2012 Directive 2012/18/EU (Major Accident Prevention (SEVESO))
Directive 98/24/EC of 7 April 1998 (Protection of the safety and health of workers from chemical agents)
Directive 89/391/EEC of 12 June 1989 (Health and safety of workers)
Directive 94/33/EEC of 22 June 1994 (Protection of young people at work)
European Agreement concerning the International Carriage of Dangerous Goods by Road/Waterway (ADR/MDG)
European Commission Decision 2000/532/EC of 3 May 2000 (List of Hazardous Waste)
Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 (Biocidal Products)
Regulation No 649/2012/EC (PIC)
Regulation No. 850/2004/EC (Persistent Organic Pollutants)
Regulation No. 1005/2009/EC (Substances that deplete the ozone layer)
Regulation No. 1107/2009/EC (Plant Protection Products)
Directive No. 2004/37/EC (Carcinogens/Mutagens)

Relevant national (Republic of Lithuania) legislation:

Law No. VIII-1641 of 18 April 2000 on the "*Law on Chemical Substances and Mixtures of the Republic of Lithuania*" (relevant current version)

Law No. VIII-787 of 16 June 1998 on the "*Law on Waste of the Republic of Lithuania*" (relevant current version)
Order No. 97/406 of 24 July 2001 on the "*Regulations on the Protection of Workers from Chemical Agents at Work and Regulations on the Protection of Workers from Exposure to Carcinogens and Mutagens at Work*" (relevant current version).
Order No. V-824/A1-389 of 1 September 2011 on the Lithuanian Hygiene Standard HN 23:2011 "*Occupational Exposure Limit Values for Chemical Substances. General Requirements for Measurement and Exposure Assessment*" (relevant current version).
1999 Order No. 217 of 14 July on the "*Waste Management Rules*" (relevant current version).
Order No. D1-462 of 12 October 2006 on the "*Description of the Procedure for the Submission, Collection, Accumulation and Further Distribution of Data and Information on Chemical Substances and Preparations Manufactured, Imported, Distributed, Exported and Used in Industry, Professional or Other Economic Activities in the Republic of Lithuania, Their Properties, Possible Impact on Human Health and the Environment*" (relevant current version).
Order No. D1-360 of 2 July 2008 on the "*Description of the Procedure for the Accounting of Chemical Substances and Preparations*" (relevant current version).
Note: Any subsequent updates, amendments and/or additions to the legislation should be taken into account accordingly. The list of legislation is not exhaustive.

15.2. Chemical safety assessment: A chemical safety assessment has not been carried out in accordance with Article 14 of the REACH Regulation (not applicable to mixtures).

16 section. OTHER INFORMATION

16.1. References to amendments: The information provided complies with the requirements of Annex II to REACH Regulation No. 1907/2006 EC (REACH), taking into account subsequent regulations amending or supplementing REACH. Version 1. Date: 2025-06-10.

16.2. The mixture classification methods used:

Physical hazards	Test methods have been established/validated, additionally taking into account available data for similar products.
Health hazards Environmental hazards	Calculation method (method for classifying mixtures based on ingredients and their concentrations), taking into account the specified total/specific concentrations and the specified M-factors/multiplication factors.

16.3. Identified uses, use description and categories: Dishwashing detergent.

16.4. Abbreviations and acronyms
ATE Acute Toxicity Estimate
ADR/RID European Agreement concerning the International Carriage of Dangerous Goods by Road/Rail
PPE Personal Protective Equipment
CAS Chemical Abbreviations Service
CLP Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
DNEL Derived No-Effect Limit
EC50 Effective Concentration of a Substance Exceeding 50% of Maximum Response
EINECS European Inventory of Existing Commercial Chemical Substances
EWC European Waste Catalogue

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
IPRD Long-Term Exposure Limit
LC50 Lethal Concentration 50% tested populations
OELV Occupational Exposure Limit Value
PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration
PROC Process Category
PC Chemical Product Category
RE Repeated Exposure
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
REACH Committee for Risk Assessment of the European Chemicals Agency
SDS Safety Data Sheet
SE Single Exposure
STP Sewage Treatment Plant
STOT Specific Target Organ Toxicity
SVHC List of Substances of Very High Concern
TLV–TWA Threshold Limit Value – Time-weighted Average
TPRD Short-term Exposure Limit Value
VLE–MP Exposure Limit Value – Average Value mg/m3 air
vPvB Very Persistent and Very Bioaccumulative

16.5. Sources used: Information provided by the manufacturer, safety data sheets of the components, publicly available data provided by the European Chemicals Agency (ECHA), the European Agency for Safety and Health at Work (OSHA), the European Food Safety Authority (EFSA), the Organisation for Economic Co-operation and Development (OECD), the German IFA database (GESTIS), the Swedish Chemicals Agency (KemI), the International Organization of Laboratories (ILO), TOXNET and other databases.

16.6. All relevant hazard (H) phrases are listed in sections 2 and/or 3.

Acute toxicity if swallowed, 3 category	H301	Toxic if swallowed.
Acute toxicity by ingestion, Category 4	H302	Harmful if swallowed
Acute toxicity by dermal, Category 3	H311	Toxic in contact with skin
Skin corrosion, Category 1	H314	Causes severe skin burns and eye damage.
Skin irritation, Category 2	H315	Causes skin irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Serious eye damage, Category 1	H318	Causes serious eye damage
Serious eye irritation, Category 2	H319	Toxic if inhaled
Acute toxicity by inhalation, Category 3	H331	Toxic if swallowed.
Reproductive toxicity, Category 2	H361(fd)	Suspected of damaging fertility or the unborn child
Specific target organ toxicity - repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Acute aquatic toxicity, Category 1	H400	Very toxic to aquatic life

Chronic aquatic toxicity, Category 1	H410	Very toxic to aquatic life with long lasting effects
Chronic aquatic toxicity, Category 2	H411	Toxic to aquatic life with long lasting effects

16.7. Information about training
Employees/users must be trained/informed on the relevant safety information provided.

16.8. Limitation of liability clause

The information provided in this Safety Data Sheet must be made available to all individuals whose work involves the chemical substance or mixture. The data corresponds to the current state of knowledge and is intended to describe the chemical product in terms of occupational health and safety and environmental protection. The information does not disclose other specific properties of the substance or mixture.

The information is accurate to the best of our knowledge on the date of preparation of this Safety Data Sheet and is applicable only if the product is used under specified conditions and for its intended purpose. However, the information is provided without any warranty, express or implied, regarding its accuracy.

Some of the information provided and the conclusions drawn may originate from sources other than direct testing of the substance or mixture itself. Therefore, considering the difficulty in applying or interpreting standard (eco)toxicological assessment methods to predict all potential hazards to environmental components, sensitive individuals, the public, or under unforeseen conditions, this product should in all cases be handled and used as potentially hazardous to both the environment and human health. Treatment must be based on all necessary precautionary measures.

If the product is used as a component in another product, the information in this Safety Data Sheet may not be applicable. The contents of this Safety Data Sheet are subject to change as new information becomes available regarding the substance’s or mixture’s impact on health and the environment, or concerning preventative measures for reducing or avoiding risks.

END OF SAFETY DATA SHEET