

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020



WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS"
WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

Dated: 2024-01-16
Printed: 2024-02-01

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

1.1. PRODUCT IDENTIFIER:

MIXTURE IDENTIFICATION: WC cleaner
MIXTURE PACKAGING: 750 g
MIXTURE CONTAINS: < 5% non-ionic surfactants, other ingredients: Perfume, Cl 42090.
Contains: Hydrochloric acid.
TRADE NAME: WC cleaner "GALAX" das Power Clean "Atlantic Freshness"
WC cleaner "Galax" das" Power Clean
TRADE CODE: -
TRADE MARK: GALAX
REACH REGISTRATION No.: Not applicable. Mixture
MOLECULAR FORMULA: Not applicable. Mixture
MOLECULAR WEIGHT: Not applicable. Mixture
CAS No.: Not applicable. Mixture
EC No.: Not applicable. Mixture
INDEX No.: Not applicable. Mixture
UFI Code: 2DY3-G0MX-G00F-D8R8

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

RECOMMENDED USE: Household. WC cleaner. Apply the product for its intended purpose and according to the instruction. For additional information on the fields of use of this product, please contact us.
USES ADVISED AGAINST: Uses other than those identified are not recommended

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER: LLC "UKRAINIAN-GERMAN COMPANY " 2K "
ADDRESS OF THE MANUFACTURER: Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine
TELEPHONE NUMBER OF THE MANUFACTURER: +380676541082
FAX NUMBER OF THE MANUFACTURER: -
E-MAIL OF THE MANUFACTURER: info@2k.company
RESPONSIBLE PERSON IN EU: 2K Haushaltschemie GmbH, Lindenstr. 48-52, 40233 Düsseldorf, Germany
mailto: d.kushal85@gmail.com, Phone: 491787178800

1.4. EMERGENCY CONTACTS:

LLC "UKRAINIAN-GERMAN COMPANY " 2K " (Office Hours)

MATERIAL SAFETY DATA SHEET

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Version No. 01

Dated: 2024-01-16

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1.4. 1. Emergency telephone number for other countries:

Country	Official advisory body	Address	Emergency number
AUSTRIA	Austrian National Public Health Institute (GÖG) Vergiftungsinformationszentrale (VIZ)	Stubenring 6,1010 Vienna, Austria T: +43 1 515 61-161 M: +43 676 848 191-661	Notruf 0-24 Uhr: 01 406 43 43 Euro-Notruf: 112 Rettung: 144 Ärztefunkdienst: 141
BELARUS	BELGIAN POISON CENTER (BELGISCH ANTIGIFCENTRUM)	Poison Control Center c/o Military Hospital Queen Astrid Bruynstraat 1, 1120 Brussels	070 245 245 (free, 24/7) If unreachable, tel. 02 264 96 30 (normal rate) 8002 5500 , from Grand Duchy of Luxembourg every day, free 24 /7
BULGARIA	National Toxicology Center, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov"	Ministry of Health, 5, „Sveta Nedelya" sq., Sofia 1000	Emergency number/ fax: +359 2 9154 233 The service is available 24/7 and the communication language is Bulgarian +359 2 9154 409,
CROATIA	Poison Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342 Information available 24/7 in Croatian and English.
CZECH REPUBLIC	Poisons Information Centre Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojisti 1 128 00 Prague 2	224 91 92 93 224 91 54 02 +42 2 2491 9293 +42 2 2491 5402
DENMARK	Poisons Information Centre Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12 +45 35 31 55 55 Danish Poison Center (Giftilinjen): +45 8212 1212
ESTONIA	Estonian Emergency Response Centre	Osmussaare 2, 13811 Tallinn General info: 6287 400	National emergency telephone number (Häirekeskuse number) is 112 Mürgistusteabekeskuse infoliini 16662 (välisriigist helistades (+372)7943794)
FINLAND	Poisons Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	Medical Helpline 116117 Open 24 hours a day(0800 147 111 (the call is free of charge)09 471 977 +358 9 471 977
FRANCE	Poison Control Center (Centre Antipoison ORFILA)	Hôpital Fernand Widal 200 rue du faubourg St-Denis 75475 Paris Cedex 10	numéro ORFILA (INRS): + 33 (0)1 45 42 59 59 (for free 24/7) +33 (0)1 45 42 59 59
GERMANY	"2K" Haushaltschemie GmbH	Lindenstr. 48-52, 40233 Düsseldorf, Germany	+491787178800
GREESE	Poison Information Centre Children's Hospital P&A Kyriakou	Athens 11762 Greece	Emergency number: (0030) 2107793777 24 hours/day Fax: 00302107486114 +30 10 779 3777
HUNGARY	Health Toxicology Information Service	1097 Budapest, Albert Flórián út 2-6.	+36 80 201 199 (0-24 hours, free of charge - only from Hungary) +36 1 476 6464 (0-24 hours, can be called for a standard fee - also from abroad)
ICELAND	Poison control center	Fossvogi 108 Reykjavik	+354 543 2222 +354 543 1000 112
IRELAND (REPUBLIC OF IRELAND)	The National Poisons Information Centre (NPIC)	Beaumont Hospital Beaumont Road 9 Dublin	01 809 2566
ITALY	Centro Antiveleni (Poisons Centre) Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 I-00168 Roma	+39 06 305 4343
LATVIA	Toxicology and Sepsis Clinic, information on poisoning and medicinal	2 Hipokrāta Street, Riga, LV-1038	+371 67042473

MATERIAL SAFETY DATA SHEET

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Version No. 01

Dated: 2024-01-16
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	products; State fire and rescue service:		(+371) 112; (+371) 113
LITHUANIA	Poisons Control and Information Bureau	Siltnamiu 29 2043 Vilnius	+370 2 36 20 52 +370 2 36 20 92
THE NETHERLANDS	UMC Utrecht Heidelberglaan 100 3584 CX Utrecht	Heidelberglaan 100 3584 CX UTRECHT Reception 1 (level 0), UMC Utrecht site	NVIC: +31 (0)88 755 8000: Only for the purpose of informing medical personnel in case of acute intoxications' or in Dutch: 'Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
NORWAY	Poisons Information Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
POLAND	Warsaw Poison Control and Information Centre	Al.Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
PORTUGAL	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	Portugal CIAV phone number: +351 800 250 250 808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	TOXAPEL Emergency Clinical Hospital for Children "Grigore Alexandrescu"	Boulevardul Iancu de Hunedoara 30-32 Bucharest	Phone number: +40213183606 +40 2121 06282 +40 2121 06183
SLOVAKIA	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SLOVENIA	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	Phone number: 112 + 386 41 650 500
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	National Emergency Telephone Number of Spanish Poison Centre: + 34 91 562 04 20 The information will be provided in Spanish (available 24h/365 days): health personnel & general public (poisoning cases)
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	"112 – ask for Poisons Information" (in Swedish this will be: "112 – begär Giftinformation" +46 8 33 12 31 (International)
UKRAINE	Institute of Hygiene and Toxicology, Науковий центр превентивної токсикології, харчової та хімічної безпеки імені академіка Л.І. Медведя Міністерства охорони здоров'я України.	вулиця Героїв Оборони, 6, Київ, Україна, 03680	+38 (044) 526-97-00
UKRAINE	LLC "UKRAINIAN-GERMAN COMPANY " 2K "	Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine	+380676541082 info@2k.companv

SECTION 2: Hazards identification

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS pictograms and signal word:	In accordance with Regulation No 1272/2008 (CLP)
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WC CLEANER "GALAX" DAS" POWER CLEAN

Dated: 2024-01-16
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Version No. 01

 Danger	Skin Corr. 1B, H314 Eye Dam. 1, H318	Causes severe skin burns and eye damage. Causes serious eye damage.
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2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 (CLP)

The product is classified and labelled according to the CLP regulation

GHS pictograms and signal word:	 GHS05 Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Dimension of the pictogram (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16. <u>Capacity of the package:</u> > 3 litres but ≤ 50 litres: at least 23x23.
Dimension of the label (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: if possible, at least 52x74. <u>Capacity of the package:</u> > 3 litres but ≤ 50 litres: at least 74x105.
Precautionary Statement Prevention	P102 Keep out of reach of children. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P332+P313 If skin irritation occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention.

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

Dated: 2024-01-16
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Precautionary Statement Storage	---
Precautionary Statement Disposal	P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Contains:	Contains Hydrochloric acid, Oleyl Amine Ethoxylat. <i>Enthält Hydrochloric acid, Oleyl Amine Ethoxylat.</i>
Supplemental label elements:	< 5% non-ionic surfactants, other ingredients: Perfume, CI 42090. Contains: Hydrochloric acid.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	None
Special packaging requirement	
Containers to be fitted with child-resistant fastenings:	Yes
Tactile warning of danger: shall be fitted with a tactile warning of danger.	Yes

2.3 OTHER HAZARDS:

No other hazards are known.

2.4. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. SUBSTANCES:

Not applicable

3.2. MIXTURES:

Household product based on below mentioned hazardous ingredients:

HAZARDOUS COMPONENTS:

INGREDIENT'S NAME; (INCI Name)	EC No / EC Index No/ REACH No	CAS No	Percentage, m. %	Classification REGULATION (EC) No 1272/2008	SCL/ M-factor/ ATE
Hydrochloric acid*	231-595-7/ 017-002-01-X/ 01-2119484862-27-0019	7647-01-0	8 - 9	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	Specific Conc. Limits: Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3: C ≥ 10 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 %

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

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(Z)-Octadec-9-enylamine, ethoxylated (Oleyl Amine Ethoxylate)	500-048-7/ Not applicable/ 01-2120785735-39-0000	26635-93-8	2 - 5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411	-
Propylene Glycol*	200-338-0/ Not applicable/ No data available	57-55-6	0.01 – 0.1	Not classified	-
Water and other ingredients, determined not to be hazardous	Balance				

* - ingredients with limit values that require monitoring at the workplace.

ADDITIONAL INFORMATION: None.

SECTION 4: First aid measures

4.1. DESCRIPTION OF FIRST AID MEASURES

- SKIN PROBLEM:** Wash with plenty of water removing all contaminated clothes and shoes. Rinse skin with water for at least 15 minutes. If skin irritation persists, call a physician.
- EYE CONTACT:** Immediately flush with plenty of water for several minutes. After initial flushing, remove any contact lenses and continue flushing. Keep eye wide open while rinsing. Immediately call a POISON CENTER/doctor.
- INGESTION:** Rinse mouth with water. Do not induce vomiting. Give plenty of water to drink. Seek medical advice.
- INHALATION:** If respiratory irritation occurs, remove casualty to fresh air and keep warm and at rest. Allow the victim to rest. Consult physician if necessary.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Causes severe skin burns and eye damage. Causes serious eye damage.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. EXTINGUISHING MEDIA:

Suitable extinguishing media: Use chemical foam, dry chemical, carbon dioxide, sand or water fog.

Extinguishing media which must not be used for safety reasons: Water jet

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: In case of fire, toxic incineration products may be released such as: carbon monoxide (CO), carbon dioxide (CO₂), hydrogen chloride. Do not inhale explosion and combustion gases. Burning produces heavy smoke.

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Version No. 01

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EXPLOSION HAZARD: Non hazardous

- 5.3. **ADVICE FOR FIREFIGHTERS:** Contact emergency personnel. Use selfcontained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be released.
- 5.4. **ADDITIONAL INFORMATION:** Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS:

Wear personal protection equipment (see section 8). Keep persons away.

6.2. ENVIRONMENTAL PRECAUTIONS:

Do not allow product to enter waters without treatment in a (biological) water treatment plant.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically. Suitable binder: multi-purpose absorbent, sand. Dispose of contaminated material as waste according to section 13. Provide adequate ventilation. Use a water rinse for final clean-up.

6.4. REFERENCE TO OTHER SECTIONS:

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling:

For Household Settings: Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

For Non-Household Settings:

Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

7.2. Conditions for Safe Storage:

For Household Settings: Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

For Non-Household Settings: Protect from sunlight and do not expose to temperatures exceeding +25°C. Store in closed container in dry, cool, well ventilated area. Keep out of reach of children.

7.3. SPECIFIC END USE (S):

Use only as directed.

7.4. OTHER MEASURES:

Keep frost-free, in a cool, dry and ventilated area (<25° C). Protect from sunlight and keep away from heat.

SECTION 8: Exposure controls/personal protection

8.1. For Household Settings: This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

8.1.2. For Non-Household Settings: Use in a ventilated area. Use safety glasses or safety goggles if

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Version No. 01

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airborne mist hazards exist; use gloves and other protective clothing (apron, boots etc.) to prevent skin contact. Always follow good hygienic work practices. Avoid prolonged contact with skin and clothing. This is a household product that is safe for consumers and other users under normal and reasonably foreseen use.

8.1.2.1. CONTROL PARAMETERS:

Ingredients Name:	CAS No.	TWA, 8 hours	STEL, 15 min.
Hydrochloric acid	7647-01-0	8* mg/m ³	5* ml/m ³
Propane-1,2-diol (Propylene Glycol)	57-55-6	7* mg/m ³	-

* Republic of Latvia Cabinet Regulation No. 325 Adopted on 15 May 2007 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 and NOAEL or NOAEC Values (ECHA data)

Substance name	End use	Exposure routes	Potential health effects	DNEL Level	NOAEL or NOAEC values
Hydrochloric acid CAS No.: 7647-01-0	Workers	Inhalation	Long-term systemic effects	5 ppm	-
	Consumers	Inhalation	Long-term systemic effects	5 ppm	-
(Z)-Octadec-9-enylamine, ethoxylated (Oleyl Amine Ethoxylate) CAS No.: 26635-93-8	Workers	Inhalation	Long-term systemic effects	2.112 mg/m ³	52.8 mg/m ³ (NOAEC, rat)
	Workers	Dermal	Long-term systemic effects	0.3 mg/kg bw/day	30 mg/kg bw/day (NOAEL, rat)
	Consumers	Inhalation	Long-term systemic effects	0.745 mg/m ³	26.09 mg/m ³ (NOAEC, rat)
	Consumers	Dermal	Long-term systemic effects	0.214 mg/kg bw/day	30 mg/kg bw/day (NOAEL, rat)
	Consumers	Oral	Long-term systemic effects	0.124 mg/kg bw/day	30 mg/kg bw/day (NOAEL, rat)
Propylene Glycol CAS No.: 57-55-6	Workers	Inhalation	Long-term systemic effects	168 mg/m ³	502 mg/m ³ (NOAEC, rat)

8.2. EXPOSURE CONTROLS:



PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

Avoid contact with the eyes. Wash hands during work breaks and at the end of the shift. Provide skin protection plan. Ensure there is sufficient ventilation of the area.

RESPIRATORY PROTECTION:

In case of insufficient ventilation wear suitable respiratory

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Version No. 01

Dated: 2024-01-16

Printed: 2024-02-01

equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

BODY PROTECTION:

Protective clothing and footwear.

EYE PROTECTION:

Safety goggles

PROTECTION OF HANDS:

Protective gloves. Suitable material: NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough time (maximal wear duration): Wear duration with occasional contact, splashes (Level 2: < 30 min): Disposable-gloves, Thickness of the material 0,1mm. Wear duration with permanent contact (Level 6: < 480min): Protective gloves, Thickness of the glove material 0,7 mm. Breakthrough times and swelling properties of the material must be taken into consideration.

- material of gloves:

NR (natural rubber), CR (polychloroprene) or NBR (nitrile rubber), category III according to EN 374.

- gloves made of the following materials are not suitable:

Gloves for mechanical protection do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

The operators shall be instructed adequately. The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9: Physical and chemical properties

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid
COLOUR:	Turquoise
ODOUR:	Characteristic
pH – VALUE AT 20 °C:	1.5 – 2.5
MAXIMUM FOAM HEIGHT, % OF THE SCALE, NOT MORE THAN:	Not determined
MELTING POINT/MELTING RANG:	Not applicable
BOILING POINT (°C):	98.9 – 102 °C

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS " POWER CLEAN

Version No. 01

Dated: 2024-01-16
Printed: 2024-02-01

FREEZING POINT (°C):	Not applicable
FLASH POINT:	Not determined
DECOMPOSITION TEMPERATURE (°C):	Not determined
EXPLOSIVE HAZARDS:	Product is not explosive
AUTO-IGNITION TEMPERATURE:	Product is not selfigniting.
OXIDIZING PROPERTIES:	Not applicable
SOLUBILITY IN WATER:	Completely soluble
FLAMMABILITY (solid, gaseous):	Not applicable - liquid

9.2. OTHER INFORMATION:

PARTITION COEFFICIENT: n-OCTANOL/WATER	log K _{ow} = 3.4 (Oleyl Amine Ethoxylate); log K _{ow} = -1.07 (Propane-1,2-diol)
% VOC:	Complies with EC regulations for VOC content.

SECTION 10: Stability and reactivity

10.1. REACTIVITY:	Stable under recommended transport or storage conditions
10.2. CHEMICAL STABILITY:	Stable under normal conditions
10.3. POSSIBILITY OF HAZARDOUS REACTION:	None
10.4. CONDITIONS TO AVOID:	Avoid heat, sunlight. Store away from bases.
10.5. INCOMPATIBLE MATERIALS:	Strong bases. Do not mix with chlorinated products (such as bleach). Do not mix with any other product or chemical unless specified in the use directions.
10.6. HAZARDOUS DECOMPOSITION PRODUCTS:	In combustion emits toxic fumes. After contact with alkali development of heat.

SECTION 11: Toxicological information

This is a household product that is safe for consumers and other users under intended and reasonably foreseeable use. Product is not classified as Toxic. Additional information on toxicological endpoints is available from the supplier upon request.

11.1. INFORMATION ON MIXTURE INGREDIENTS TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Hazardous Ingredients:

Ingredients Name:	CAS No.	Composition Range, %	LD50/LC50 (oral)	LD50/LC50 (dermal)
Hydrochloric acid	7647-01-0	8 - 9	LD50 = 238 - 277	LD50 >5010

MATERIAL SAFETY DATA SHEET

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Version No. 01

Dated: 2024-01-16

Printed: 2024-02-01

			mg/kg (Rat)	mg/kg (Rat)
(Z)-Octadec-9-enylamine, ethoxylated (<i>Oleyl Amine Ethoxylate</i>)	26635-93-8	2 - 5	LD50 =1260 mg/kg (Rat)	LD50 >2000 mg/kg
Propylene Glycol	57-55-6	0.01 — 0.1	LD50=22000 mg/kg (Rat)	LD50>2000 mg/kg (Rabbit)

PRIMARY IRRITANT EFFECT:

ON THE SKIN:	Causes severe skin burns and eye damage. Symptoms may include burns, blisters, redness and pain (which may be delayed).
ON THE EYE:	Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
INHALATION:	May cause mild, transient respiratory irritation. Avoid prolonged contact to concentrated vapors.
INGESTION:	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.

SENSITISATION: No sensitisation effect known

CHRONIC EFFECT: No chronic effect known

CARCINOGENICITY: Finished product is not expected to be carcinogenic

TARGET ORGANS: No adverse health effects on target organs expected for finished product.

MUTAGENICITY: No mutagenic effect known

TOXICAL EFFECT ON THE REPRODUCTIVE SYSTEM: No toxic effect known

SECTION 12: Ecological information

12.1. TOXICITY: The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

12.1.1. INFORMATION ON MIXTURE INGREDIENTS ECOTOXICOLOGICAL EFFECTS:

AQUATIC TOXICITY:	
7647-01-0 Hydrochloric acid	
EC ₅₀ / 48 h	0.45 mg/l – Invertebrates (fresh water)
EC ₅₀ / 72 h	0.73 mg/l – Algae (<i>Chlorella vulgaris</i>)
LC ₅₀ / 96 h	20.5 mg/l – Fish (<i>Lepomis macrochirus</i>)
26635-93-8 (Z)-Octadec-9-enylamine, ethoxylated (<i>Oleyl Amine Ethoxylate</i>)	

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020



WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS" WC CLEANER "GALAX" DAS " POWER CLEAN

Version No. 01

Dated: 2024-01-16
Printed: 2024-02-01

EC ₅₀ / 48 h	0.043 mg/l - Invertebrates (fresh water)
EC ₅₀ / 72 h	86.7 µg/l – Algae (OECD 201)
LC ₅₀ / 96 h	>1 – 10 mg/l – Fish (Danio rerio (zebra fish)) (OECD 203)
57-55-6 Propylene Glycol	
EC ₅₀ / 48 h	18340 mg/l (<i>Ceriodaphnia dubia</i>)
EC ₅₀ / 96 h	19000 mg/l (<i>Pseudokirchnerella subcapitata</i>)
LC ₅₀ / 96 h	40613 mg/l (<i>Oncorhynchus mykiss</i>)

*It is accepted that the aquatic toxicity of hydrochloric acid results if sufficient acid is present to produce a very low pH (i. e. pH 3-5). Given that the environmental exposure assessment shows insignificant perturbation of aquatic pH levels from the formulation of the product and its proposed use, it is considered that there is no longterm risk to aquatic organisms and therefore chronic fish effects data are not require.

12.2. PERSISTENCE AND DEGRADABILITY:

ASSESSMENT BIODEGRADATION AND ELIMINATION:

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

Ingredient	Biodegradability
Hydrochloric acid	As the active substance, hydrochloric acid, is an inorganic compound, which is not biologically degradable, the ready biodegradability, inherent biodegradability and biodegradation in seawater are scientifically impossible to perform.
(Z)-Octadec-9-enylamine, ethoxylated (<i>Oleyl Amine Ethoxylate</i>)	For primary fatty amines ethoxylates with chain lengths of C12 to C18 (saturated and unsaturated) many ready biodegradability test results in excess of 60% at day 28 are available. Biodegradation in excess of 60% was not achieved in a few tests. The low biodegradability percentages obtained in these tests should be attributed to the biocidal properties of primary fatty amine ethoxylates and should consequently be ignored.
Propane-1,2-diol	96 % (28 days, OECD Guideline 301F)

12.3. BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate

Ingredient	BCF	Note
Hydrochloric acid		Hydrochloric acid does not bioaccumulate or bioconcentrate.
(Z)-Octadec-9-enylamine, ethoxylated (<i>Oleyl Amine Ethoxylate</i>)	23.4 L/kg ww	Readily biodegradable
Propane-1,2-diol	0.09	Calculated

12.4. MOBILITY IN SOIL: Soluble in water. The product is predicted to have high mobility in soil.

Ingredient	Adsorption coefficient log K _{oc}	Note

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS" WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

Dated: 2024-01-16

Printed: 2024-02-01

Hydrochloric acid	Terrestrial compartment is not expected to be relevant. If emitted to soil, sorption to soil particles will be negligible.	
(Z)-Octadec-9-enylamine, ethoxylated (Oleyl Amine Ethoxylate)	No data available	
Propane-1,2-diol	-1.07	Expected to be mobile

ASSESSMENT TRANSPORT BETWEEN

ENVIRONMENTAL COMPARTMENTS: Adsorption to solid soil phase is possible.

ADDITIONAL ECOLOGICAL INFORMATION:

AOX-INDICATION: The product does not contain substances, which can influence the AOX of waste water.

THE FORMULATION CONTAINS THE FOLLOWING HEAVY METALS AND THEIR COMPOUNDS ACCORDING TO DIRECTIVE 2006/11/EC (ANNEX 1):
None

GENERAL NOTES: Sewages that contain this product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

12.5. RESULTS OF PBT UN vPvB ASSESSMENT: This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

12.6. ENDOCRINE DISRUPTING PROPERTIES: This product does not contain any known or suspected endocrine disruptors.

12.7. OTHER ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. No other adverse environmental effects (e.g. Ozone depletion, photochemical ozone creation potential, endocrine disruption).

SECTION 13: Disposal considerations

13.1. For Household Settings:

The following instructions are for consumer usage only. Empty can through normal use as instructed on the can. Consumer produced household solutions may be disposed of down the drain with running water. Consumer may discard empty container in trash, or recycle where facilities exist.

13.2. For Non-Household Settings: Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste. Disposal should be in accordance with all local, regional, national and international regulations.

13.2..2. WASTE TREATMENT METHODS: Within the present knowledge of the supplier, this product is not regarded as hazardous waste. Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations.

EUROPEAN WASTE CATALOGUE	
EWC CODE	Description

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020



WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS"
WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

Dated: 2024-01-16
Printed: 2024-02-01

07 06 01*	Aqueous washing liquids and mother liquors (Waste code applies to unused product)
15 01 02	Plastic packaging (Waste code applies to packaging containing residues of product)

CONTAMINATED PACKAGING:

RECOMMENDATION:

RECOMMENDED CLEANING AGENT: Water. In single quantities packaging can be apply again or disposed in household waste container.

SECTION 14: Transport information

14.1. UN NUMBER:	UN 3264
14.2. UN PROPER SHIPPING NAME:	
ADR, IATA, IMDG	UN 3264, Corrosive Liquid, Acid, Inorganic, N.O.S. (Hydrochloric acid)
14.3. TRANSPORT HAZARD CLASS (ES):	
ADR, IATA, IMDG CLASS	8
14.4. PACKING GROUP:	
ADR, IATA, IMDG	II
14.5. ENVIRONMENTAL HAZARDS:	
ADR-ENVIRONMENTAL POLLUTANT	No data available
MARINE POLLUTANT	No data available
14.6. SPECIAL PRECAUTIONS FOR USER:	None
14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II	
OF MARPOL 73/78 AND THE IBC CODE:	Not applicable
TRANSPORT/ADDITIONAL INFORMATION:	No
UN "MODEL REGULATION"	No

SECTION 15: Regulatory information

While the finished product(s) is considered hazardous, this MSDS contains valuable information critical to the safe handling and proper use of the product.

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS"
WC CLEANER "GALAX" DAS" POWER CLEAN

Version No. 01

Dated: 2024-01-16

Printed: 2024-02-01

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 **on detergents.**

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**), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 **on pollution** caused by certain dangerous substances discharged into the aquatic environment of the Community

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMISSION REGULATION (EU) No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the REACH.

INFORMATION ABOUT LIMITATION OF USE: Take note of Directive 94/33/EC on the protection of young people at work.
Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

REGULATIONS WHICH MAY APPLY IN EVENT OF ACCIDENT: CONTROL OF MAJOR ACCIDENT HAZARDS (COMAH): This substance/mixture is not subject to ordinance on industrial accidents (substance list, Annex I).

15.2. CHEMICAL SAFETY ASSESSMENT: Not required.

SECTION 16: Other information

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:

Met. Corr. 1	Corrosive to metals – Hazard Category 1
Acute Tox. 4	Acute toxicity – Hazard Category 4
Skin Corr. 1B	Skin corrosion – Hazard Category 1B
Eye Dam. 1	Eye Damage – Hazard Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation
Aquatic Chronic 2	Chronic aquatic toxicity - Hazard Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

MATERIAL SAFETY DATA SHEET

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WC CLEANER "GALAX" DAS POWER CLEAN "ATLANTIC FRESHNESS"
WC CLEANER "GALAX" DAS " POWER CLEAN

Version No. 01

Dated: 2024-01-16

Printed: 2024-02-01

- H318** Causes serious eye damage.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

ABBREVIATIONS AND ACRONYMS:

- PBT:** persistent, bioaccumulative, toxic
vPvB: persistent, very bioaccumulative
EC: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Index No.: International Substance Identification No. (Information related to the classification of substance including all C&L elements (i.e. hazard pictograms, signal words, codification of hazard and precautionary statements, specific concentration limits or M-factors, any cut-off values and supplemental labelling information))
- AOX:** Adsorbable Organohalogens
ADR: European Agreement concerning the International Carriage of Dangerous Goods
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC₅₀: Median (50 %) lethal concentration
LD₅₀: Median (50%) lethal dose
EC₅₀: Effective concentration, 50 percent
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and Mixtures
- ECHA:** European Chemicals Agency, Helsinki (http://echa.europa.eu/home_en.asp)
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
DNEL: Derived no-effect level is the level of exposure to a substance above which humans should not be exposed
NOAEL: No-Observed-Adverse-Effect Level
NOAEC: No-Observed-Adverse-Effect Concentration
VOC: Volatile Organic Compounds

The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.