


SAFETY DATA SHEET


According to Commission Regulation (EU) No. 453/ 2010 Annex I

	ECOCLEAN 203	The date of compilation:	2010-08-03
		Revision:	2015-11-10
		Version No.	4

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

Product identifier	Ecoclean 203
Relevant identified uses of the substance or mixture	Cleaning/ maintenance detergent for professional use - alkaline low foam detergent disinfectant with quaternary ammonium compounds.
Supplier/ Manufacturer	UAB „BS Chemical“, Baltijos pr. 123-9, LT-93224 Klaipeda, Lithuania, tel./fax.: +370 46 366279, www.bs-chemical.com
E-mail address for a person responsible for the safety data sheet	dovile@bs-chemical.lt
Emergency telephone number	112 (in Member State of EU). Estonia: 16662, calling from abroad (+372) 626 93 90. Hours of operation are during weekdays from Monday 9AM to Saturday 9AM (closed on Sunday and on national holidays). Latvia: +371 67042473. Service is available 24 hours. Lithuania: +370 5 236 20 52; +370 687 53378. Norway: 22 59 13 00. Poland: + 48 58 349 28 31, + 48 12 646 87 06, + 48 61 848 10 11, + 48 22 619 66 54 ext. 1240.


2. HAZARDS IDENTIFICATION

Classification of the substance/ mixture according to Regulation (EU) No 1272/ 2008 [CLP/ GHS]	Signal word: Dangerous	 GHS05
	Hazard class: Skin corrosion, subcategory 1A; Hazardous to aquatic environment, chronic category 3.	
	Hazard statements: H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.	
	Precautionary statements: P273 Avoid getting into the environment. P280 Wear protective gloves / protective clothing /use eye (face) protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off / remove all contaminated clothing. Rinse skin with water / jet. P305 + P351 + P338 IF IN EYES: Rinse cautiously several minutes with water. Remove contact lenses, if they present and it is easy to do. Continue washing eyes. P310 Immediately call POISON CENTER and the doctor.	

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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Description of substance/ mixture

Mixture of substances listed below with no hazardous additions.

Hazardous components:

No.	CAS No.	EC No.	Index No.	Mass fraction, %	Name	Classification according to Regulation (EU) No 1272/2008 [CLP/ GHS]
1.	1310-58-3	215-181-3	019-002-00-8	5 – 15	potassium hydroxide; caustic potash	Skin. Corr. 1A; H314
2.	68424-85-1	270-325-2	-	< 5	Ketvirtiniai amonio junginiai, benzil-C12-16-alkildimetil, chloridai; C12-C16 alkylbenzylidimethylammonium chloride	Skin Corr. 1B, H314; Acute Tox., H302, H312; Aquatic. Acute 1, H400

Note: explanations of hazard symbols, risk phrases and other signs are listed in Sections 2 and 16.

Components according to EU Detergents Regulation No. 551/2009:

Cationic surfactants	< 5
Nonionic surfactants	< 5

4. FIRST AID MEASURES

Description of the first aid measures

In all cases if the damage to health occurred, seek immediate medical attention. Get out a victim from the dangerous zone. If a victim is unconscious lay him down stably in a safe place.

After inhalation

If inhalation of solution's aerosols or vapors has occurred, immediately stop the contact - take out a suffering person to the fresh air, provide a peace. If respiratory impairment has occurred seek medical advice. If a person lost consciousness, lay him down steadily on a side and carry to the medical institution.

After skin contact

Immediately remove all contaminated clothing, at least 10 – 15 minutes wash with plenty of water. Don't use the soap. If symptoms of damage develop, seek medical advice.

After eye contact

Rinse opened eye as soon as possible. At least 15 minutes wash eyes with running water. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

After swallowing

Do not induce vomiting. If a person is conscious, remove substance residues from mouth, rinse it with water, drink till 500 ml water and seek immediate medical attention.

5. FIREFIGHTING MEASURES

Extinguishing media


CO₂, extinguishing powder or water spray. Larger fires with water spray or with alcohol resistant foam. Firefighting equipment must be selected assessing the properties of around burning materials.

Special hazards arising from the substance/ mixture

Risks can occur: during the reaction of a mixture with metals and acids. Hydrogen can be released (risk of explosion!). Hazardous decomposition materials which may form during the fire are

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carbon, oxides, amine vapors, nitrogen oxides, sulfur dioxide, sulfur trioxide..

Advice for firefighters

Wear respiratory protective equipment and chemical resistant/ protective clothing during the fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

If the product has been spilled, stop any work. Sufficient ventilation/ respiratory protection, contact with skin, eyes prevention (see section 8).

Environmental precautions

Do not pour spilled material to the local drains, surface water, or nature environment. If larger quantities were spilled out, it is necessary to inform the rescue service, or county's department of environmental protection.

Methods (material) for containment and cleaning up

Keep away from incompatible materials or flammable materials. Thoroughly clean contaminated surfaces. Recommendation: to clean the spillage with water. The small quantity of spilled out product can be neutralized and rinsed with water. Absorb with liquid-binding material (sand, diatomite, universal binders, and sawdust). It is prohibited to discard the material in the trash basket or to pour back into the original container.

Reference to other sections

View sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Store in a tightly closed original container, in a dry ventilated area. Advice: alkali-resistant floors. Avoid leakage. Suitable material: stainless steel, polyethylene, glass and ceramics. Do not store together with acids, combustible oxidizing agents (fire danger), metals. Avoid direct sunlight. Keep container in the temperature not lower than 0°C and not more than +35°C.

Conditions for safe storage

For the professional use only. Use appropriate personal protective equipment as indicated in Section 8. Do not mix with other chemicals. Do not pour back into the original container. Use in accordance with good industrial hygiene and safety practice. Install emergency eye showers equipment. Avoid sunlight, heat. Do not smoke, drink or eat while using the product. Do not allow concentration of vapors in the air to exceed allowable threshold. Use appropriate personal protective equipment as indicated in Section 8.


8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters according to HN 23:2007 in Lithuania:

Name	CAS No.	Allowable concentration
potassium hydroxide; caustic potash	1310-58-3	TLV 2 mg/m ³ U

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Notes: TLV – not to be exceeded limit value, U – acute effects.

Appropriate engineering controls

General, local exhaust ventilation. Avoid the spills, and any contact with this mixture, see Section 7.

Personal protective equipment:

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of the work. Avoid contact with eyes and skin.

Hand and skin protection

Protective gloves. The material of the gloves should be resistant to the substance/ mixture, alkalis. Penetration time of the material check out with manufacturer. Foot protection - rubber boots. Protective clothing, it is recommended rubber apron.

Eye protection

Protective glasses, face covering shields.

Respiratory protection

In the case of insufficient ventilation, or in an emergency – the protection against aerosols must be used half masks with filtering against harmful liquid aerosols and valve filtering half masks against gases and particles.

Environmental impact control

See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Clear, colorless
Odor	Specific
pH, 1 %, 20-25°C	~ 11,8
pH, 100 %, 20-25°C	~ 13,5
The relative density, g/cm ³ , 20°C	1,05 – 1,08


10. STABILITY AND REACTIVITY

Chemical stability	Used according to specifications, under normal conditions - stable. Active exothermic reaction with acids. Destroys light metals (tin, zinc, aluminum, brass). During the contact with acids liberates toxic gas. Destroys some plastics, rubber.
Conditions to avoid/ incompatible materials	Avoid sunlight, heat, organic, flammable, oxidizing agents, acids.
Hazardous decomposition products	Also reaction products depend on the substances/mixtures involved in chemical reactions.

11. TOXICOLOGICAL INFORMATION

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Toxicological effects	On the basis of chemical information, it can be said that the mixture is not characterized by acute toxicity, when swallowed by test animals (rat).
Primary irritant effect	<p>Skin: burns of various degrees, skin redness, blisters. Repeated or prolonged exposure may cause dermatitis. The damage depends on the exposure time and concentration of the solution.</p> <p>Eyes: pain, tearing, vision changes, can cause irreversible damage to the eyes.</p> <p>Inhalation: inhalation of aerosols may cause shortness of breath, chest pain, dizziness, and headache.</p> <p>Ingestion: chest pain, abdominal pain, dysphasia, drooling, mouth sores. If ingested, strong corrosive effects can be done to the mouth and larynx, esophagus and stomach perforation risk.</p>
Additional toxicological information:	-

12. ECOLOGICAL INFORMATION


Toxicity	On the basis of chemical information, it can be said that mixture is characterized by toxicity chronic, category 3, to aquatic organisms (fish). Risk to the environment may occur due to changes in pH: if pH 11,0 – 11,5 rapid loss of species, if pH is 9,2 rapid loss of Amanita trout and perch.
Persistence and degradability	On the basis of chemical information, it can be said that the product is biodegradable. The biodegradation process of mixture (surfactants) in the environment is in accordance with requirements of Detergents Regulation No. 551/ 2009.
Bioaccumulative potential	Not determined/ no data.
Mobility in soil	Soluble in water, spread out. Before being released into waste water or sewage system must be diluted with water or neutralized.
Other adverse effects	Threat to aquatic and soil organisms can be caused by changes in local environment's pH.

13. DISPOSAL CONSIDERATIONS

Disposal of product	Waste must be managed according to the Waste Management Act. Do not dispose in the trash, local and storm sewage system, surface water or environment. Codes of waste: 07 06; 20; 20 01 15*; 20 01 29*; 20 01 30.
Disposal of packaging	Packaging waste must be handled according to Packaging and Packaging Waste Management Act. The product must be diluted with water or neutralized before released into sewage system. Washed and dried packaging can be reused.

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14. TRANSPORT INFORMATION

Transport classification	Land transport ADR / RID (international/internal transportation).
UN number	1814
Name and description	MIXTURE OF POTASSIUM HYDROXIDE, SOLUTION
Class	8 corrosive substances
Classification group	C5
Packing group	II
Labels	8
Hazard identification number	80
Special precautions for user	Do not damage packaging.

15. REGULATORY INFORMATION

Information on legal regulations related to the substance / mixture:

1. Commission Regulation (EC) No. 286/2011; 1272/2008; 1907/2006.
2. Commission Regulation (EC) No. 551/2009.
3. HN 23:2007 "Occupational exposure limit values. Measuring the Impact Assessment and General Requirements".
4. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

16. OTHER INFORMATION


Explanations of Hazard symbols and numeric characters (described in Section 3):

Skin Irrit. 2	Skin Irritation, category 2.
Acute Tox. 4	Acute toxicity, category 4.
Aquatic Acute 1	Hazardous to the aquatic environment — Acute, category 1.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.

This safety data sheet must be available to anyone who works with this type of chemical product. Data is in line with our current knowledge and it describes a chemical product, offers safety, occupational health, and environmental recommendations. This information will be added if new data about this chemical product will be ready. Material Safety Data Sheet does not disclose any specific chemical characteristics of the product.

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