

SAFETY DATA SHEET



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

	BS MILFORTE	The date of compilation:	2009-07-27
		Revision:	2012-08-17
		Version No.	4

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

Product identifier	BS Milforte
Relevant identified uses of the substance or mixture	Cleaning/ maintenance detergent for professional use - alkaline low foaming detergent. Suitable for light – metal surfaces.
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		
	Hazard class: Skin corrosion, subcategory 1A; Long-term aquatic hazard, chronic 1; Acute toxicity, category 4.		
	Hazard statements: H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. EUH031 Contact with acids liberates toxic gas.	GHS05	GHS09
	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. P304 + P340 + P310 IF INHALED: Remove suffering person to the fresh air, leave him resting in a position comfortable for breathing. Immediately call POISON CENTER and the doctor. 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.		

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Additional information:

8 % of the mixture components' toxicity and hazard to water environment is unknown.

Classification of the substance/ mixture according to **Directive No 67/548/EEB**

Risk phrases:

R35 Causes severe burns.

R50 Very toxic to aquatic organisms.

Safety phrases:

S26 After contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water.

S36/37/39 Wear suitable protective clothing, gloves, use eye (face) protection.

S45 During an accident or if you feel unwell, immediately seek medical advice (if possible show this label).



C Corrosive



N Dangerous to the environment

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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.	7681-52-9	231-668-3	017-011-00-1	< 5	sodium hypochlorite, solution ...% Cl active	Aquatic. Acute 1; H400

No.	CAS No.	EC No.	Index No.	Mass fraction, %	Name	Classification according to Directive No 67/548/EEB
1.	1310-58-3	215-181-3	019-002-00-8	5 – 15	potassium hydroxide; caustic potash	C; R35
2.	7681-52-9	231-668-3	017-011-00-1	< 5	sodium hypochlorite, solution ...% Cl active	N; R50

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:

Phosphates	< 5
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4. FIRST AID MEASURES

Description of the first aid measures

In all cases if the damage to health occurred, seek immediate medical attention. If a person is unconscious do not give any water/ do not put anything into the mouth. In If substance/mixture poisoning case was discovered immediately contact the nearest Poisons control and information centre.

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After inhalation	If inhalation of chlorine gas 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. If skin gets burned by substance/ mixture, not to use a soap. If symptoms of damage develop, seek medical advice.
After eye contact	Rinse opened eye as soon as possible, at least 10 - 15 minutes wash eyes with running water lifting and lowering eyelids. Remove contact lenses, if present and easy to do. Seek immediate medical attention.
After swallowing	Do not induce vomiting, do not give an active carbon. If a person is conscious, remove substance residues from mouth, rinse it with water, drink plenty of water and seek immediate medical attention.

5. FIREFIGHTING MEASURES

Extinguishing media	Firefighting equipment must be selected assessing the properties of around burning materials.
Special hazards arising from the substance/ mixture	It is necessary to know the properties of other chemicals or mixtures used or stored together.
Advice for firefighters	During the fire, wear respiratory protective equipment and chemical resistant/ protective clothing. Personal protective equipment must be chosen assessing the properties of burning around materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Sufficient ventilation / respiratory protection/ contact with skin, eyes prevention. `
Environmental precautions	Do not pour spilled material to the local drains, surface water, or nature environment.
Methods (material) for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, universal binders, and sawdust). Residues neutralize with calcium soda or lime. It is prohibited to discard the material in the trash basket or to pour back into the original container. Dispose gathered material according to the instructions.
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. Do not store together with acids. Keep container tightly
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closed in the temperature not lower than 0°C and not more than +20°C.

Conditions for safe storage

For the professional use only. Use only in a well ventilated area, where exhaust ventilation is equipped strictly in accordance with the instructions. Use common rules/instructions when working with chemicals. Do not mix with other chemicals. During the process do not eat, drink or smoke. Do not allow concentration of chlorine 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 Nr.	Allowable concentration
potassium hydroxide; caustic potash	1310-58-3	TLV 2 mg/m ³ U
sodium hypochlorite, solution ...% Cl active	7782-50-5	TPRD 1,5 mg/m ³ ; 0,5 PPM U

Notes: TLV – not to be exceeded limit value, TPRD – short-term exposure 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 – alkali-resistant rubber boots. Protective clothing, it is necessary rubber apron.

Eye protection

Wear safety glasses, face covering shields.

Respiratory protection

In the case of insufficient ventilation, or in an emergency – to be protected against chlorine vapors mask or masks with filters B1 according to EN 141 must be worn.

Environmental impact control

See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Color

Clear, yellowish to tawny

Odor

Specific (chlorine)

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pH, 1 %, 20-25°C > 11,8

The relative density, g/cm³, 20°C 1,26 – 1,28

10. STABILITY AND REACTIVITY

Chemical stability	Used according to specifications, under normal conditions - stable.
Conditions to avoid/ incompatible materials	Active exothermic reaction with acids, strong oxidizing agents. Destroys some light metals (tin, zinc, aluminum, brass), some plastics and rubber.
Hazardous decomposition products	Chlorine. Also reaction products depend on the substances/mixtures involved in the chemical reactions.

11. TOXICOLOGICAL INFORMATION

Toxicological effects	On the basis of chemical information, it can be said that the mixture is characterized by acute toxicity, 4 category, when swallowed by test animals (rat).
Primary irritant effect	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. Eyes: pain, tearing, vision changes, can cause irreversible damage to the eyes. Inhalation: inhalation of aerosols can cause dyspnea, chest pain, and difficulty to breath, dizziness, headache. After a few hours pulmonary edema can occur. People sensitive to chlorine can feel bronchial spasms. 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.
Additional toxicological information:	8 % of the mixture components' toxicity is unknown.

12. ECOLOGICAL INFORMATION

Toxicity	On the basis of chemical information, it can be said that mixture is characterized by an toxicity chronic, category 1, to aquatic organisms.
Persistence and degradability	On the basis of chemical information, it can be said that the product is biodegradable. It decomposes to insoluble silica's compounds. The mixture contains phosphates, which during the photosynthesis are forming organic compounds on top of the water thus contributing to the eutrophication of water environment. Phosphorus compounds promote the growth of the algae and bacteria.

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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	8 % of the mixture components' hazard to water environment is unknown. 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.

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+Environmentally hazardous substances
Hazard identification number	80
Special precautions for user	Do not damage packaging. Threat to the aquatic environment or the sewage system.

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

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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. Corr. 1A

Skin Corrosion, 1A subcategory.

Aquatic. Acute 1

Hazardous to the aquatic environment, acute category 1.

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.

This safety data sheet was reviewed assessing the requirements of REACH and GHS regulations. On December the 1, 2015 DSD mixture classification, labeling and packaging requirements will be replaced by CLP rule requirements. UAB BS Chemical "refers to the CLP / GHS Regulations, and always keeps up to date Material Safety Data Sheets according to the chemical suppliers' Material Safety Data Sheets.