SAFETY DATA SHEET

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

BS CHEMICAL	**SILA BASE**	The date of compilation:	2011-05-27
		Revision:	2015-09-22
		Version No.	3

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

Product identifier	SILA Base
Relevant identified uses of the substance or mixture	Cleaning/ maintenance detergent for professional use – liquid laundry detergent.
Supplier/ Manufacturer	JSC „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.

Hazard statements:

H314 Causes severe skin burns and eye damage.

GHS05

Precautionary statements:

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 + P310 IF IN EYES: Rinse cautiously several minutes with water. Remove contact lenses, if they present and it is easy to do. Continue washing eyes. Immediately call Poisons Control and Information Office, or seek a doctor.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Description of substance/ mixture: Mixture of substances listed below with no hazardous additions.

Hazardous components:

No	CAS No	EC	Index No	Mass	Name	Classification according to

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		No		fraction, %		**Regulation (EU) No 1272/ 2008 [CLP/ GHS]**
1.	1310-73-2	215-185-3	011-002-00-6	5 – 15	Natrio hidroksidas; sodium hydroxide; caustic soda	Skin. Corr. 1A; H314
2.	164462-16-2	423-270-3	-	5 – 15	Alanine, N,N-bis(carboxymethyl)-, sodium salt	-

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, phosphonates	< 5

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.
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. If skin gets burned by substance/ mixture, do not to use 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 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 a glass 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.

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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 damage packaging. Do not store together with acids, oxidizing agents, flammable solutions, ammonium salts, metals (aluminum, zinc, tin), foodstuffs, beverages, feed. Keep container tightly closed at temperatures +10°C÷ +30°C away from heat sources and avoid direct sunlight.
Conditions for safe storage	For the professional use only. Diluting the carefully pour the mixture into the water. Prohibited to pour water into the mixture while diluting. 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, smoke. 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
sodium hydroxide; caustic soda	1310-73-2	NRD 2 mg/m^3 U

Notes: NRD – not to be 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	Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of the work. Avoid contact with eyes and skin.

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Hand and body protection	Protective gloves. The material of the gloves should be resistant to the substance/ mixture. Penetration time of the material check out with manufacturer. Protective clothing, footwear.
Eye protection	Safety glasses, face covering shields.
Respiratory protection	In the case of insufficient ventilation, or in an emergency – the protection against aerosols must be used filtering half masks against harmful liquid aerosols and filtering half masks with valve against gases and particles.
Environmental impact control	See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Clear, colourless
Odor	Specific
pH, 1 %, 20-25°C	> 11,8
The relative density, g/cm^3, 20°C	1,31 – 1,36

10. STABILITY AND REACTIVITY

Chemical stability	When ensured normal storage, transport and use, under normal circumstances - the mixture is stable.
Conditions to avoid/ incompatible materials	Exothermic reaction when mixing with water and during the reaction with reducing agents. Avoid heating and contact with metals, alkalis.
Hazardous decomposition products	Reaction products depend on the substances/mixtures involved in chemical reactions.

11. TOXICOLOGICAL INFORMATION

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 (rats) - it does not exceed acute toxicity estimates. However, the data on nitric acid's toxicity to experimental animals in the various sources is contradictory, as long as strong corrosive effect shows up earlier than toxicity.
Primary irritant effect	Skin: burns of various degrees. Eyes: pain, tearing, vision changes, can cause irreversible damage to eyes, blindness risk. Inhalation: shortness of breath, chest pain, difficulty breathing, weakness, headache. Corrosive and irritant effects.

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	Ingestion: mouth and throat burns, nausea, vomiting, diarrhea, gastrointestinal and esophageal inflammation and ulceration.
Additional toxicological information:	People, who have experienced the first symptoms of asthma, are not allowed to work with this material.

12. ECOLOGICAL INFORMATION

Toxicity	On the basis of chemical information, it can be said that mixture is characterized by an toxicity chronic, category 4, to aquatic organisms (fish).
Persistence and degradability	It gradually dissociates into ions in water. The biodegradation process of mixture (surfactants) in the environment is in accordance with requirements of Detergents Regulation No 551/ 2009.
Bioaccumulative potential	Does not accumulate in fatty tissues.
Mobility in soil	Soluble in water, spread out, neutralize. 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. Contains nitrogen and phosphorus stimulating the plant growth.

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: 06 01 05; 11 01 05*; 07 06; 20; 20 01 14*; 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	2031
Name and description	NITRIC ACID MIXTURE, with less than 65% nitric acid
Class	8 corrosive substances
Cassification group	C1
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.
Eye Irrit. 2	Eye irritation, Category 2.
H315	Irritating to the skin.
H319	Causes severe eye irritation.
Xi	Irritating
R36/38	Irritating to eyes and skin.

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.