

SAFETY DATA SHEET


According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

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

Product identifier	BS Kristalfoam
Product code(s) according to the Combined Nomenclature (CNC)	34029090
Relevant identified uses of the substance/ mixture and uses advised against	Cleaning/ maintenance detergent for professional use – acidic foaming detergent for organic and inorganic soil.
Supplier/ Manufacturer	JSC „BS Chemical“, Baltijos pr. 123-9, LT-93224 Klaipeda, Lithuania, EU, tel./fax.: +370 46 366279, www.bs-chemical.com
E-mail address for a competent person responsible for the safety data sheet	dovile@bs-chemical.lt
Emergency telephone number	112 (in Member State of EU). Lithuania: +370 5 236 20 52, +370 687 533 78. Service is available 24 hours. 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. 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. 113 (in Member State of CIS). Russia: 8 (495) 621-68-85; 8 (495) 621-68-85. Belarus: +375 17 385 14 22.

2. HAZARDS IDENTIFICATION

Classification of the substance/ mixture and label elements	Signal word: Danger Hazard class: Skin corrosion, subcategory 1B Hazard statements: H314 Causes severe skin burns and eye damage. 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. P304+P340 IF INHALED: Remove suffering person to the fresh air, leave him resting in a	 GHS05
--	---	--

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

position comfortable for breathing.

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.

P501 Dispose of contents/container to in accordance with applicable laws and regulations.

Other hazards Substance/ mixture does not meet the PBT or vPvB classification criteria; at the time MSDS' compilation substances are not on the candidate SVHC (very high concern) list.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Description of substance/ mixture Solution, mixture of substances listed below with no hazardous additions.

Hazardous components:

No	CAS No	EC No	Index No	Mass fraction, %	Chemical name, <i>registration number</i>	Classification
1.	7664-38-2	231-633-2	015-011-00-6	30 – 45	phosphoric acid...%, orthophosphoric acid...% <i>01-2119485924-24-0000</i>	Skin Corr. 1B H314
2.	85536-14-7	287-494-3	-	< 5	benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. <i>01-2119490234-40-0000</i>	Acute Tox. 4 H302 Skin Corr. 1C H314 Eye Dam. 1 H318 Aquatic Chronic 3 H412
3.	15763-76-5	239-854-6	-	< 5	sodium p-cumenesulphonate	Eye Irrit. 2 H319

Note: risk phrases and other signs are listed in Sections 2 and 16.

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

Anionic surfactants	< 5
---------------------	-----

4. FIRST AID MEASURES

Description of first aid measures:

Information of the first aid

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. If substance/mixture poisoning case was discovered immediately contact the nearest Poisons control and information centre.

After inhalation

If inhalation of gas during an accident 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 take off contaminated clothing. wash with plenty of water at least 10 – 15 minutes. In case of burn do not use 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 they present and it is easy to do. Seek immediate medical attention.

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

After swallowing

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

Most important symptoms and effects (acute and delayed):

Effects on eyes/skin seen as corrosion.

Indication of any immediate medical attention and special treatment needed:

In the workplace must be an eyewash fountain, shower or bath. Also, first-aid equipment, instruments eyes flushed.

5. FIREFIGHTING MEASURES

Extinguishing media

The mixture is not flammable. Extinguishing media: CO₂, foam, fire-resistant foam. Fire-fighting equipment must be selected assessing the properties of around burning materials.

Special hazards arising from the substance/ mixture

Hydrogen is distinguished in contact with the most metal (risk of explosion). Toxic oxides of phosphorus (PO_x) when is heating a mixture. Toxic gas phosphine PH₃ can be distinguished in contact of hot mixture and contaminated metals. It is necessary to know the properties of other chemical substances or mixtures used or stored together.

Advice for firefighters

Do not pour the water into the container. Containers exposed by heat and pressure, may explode. During the fire, wear respiratory protective equipment and chemical resistant/protective clothing. Protective personal equipment must be chosen assessing the properties of burning around materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Sufficient ventilation/ respiratory protection, contact with skin, eyes prevention. Do not inhale gas. Avoid the mixture contact with metals. Use appropriate personal protective equipment as indicated in Section 8.

Environmental precautions

Do not pour any spilled out 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). Neutralize residues and rinse off surface with water. It is prohibited discarding the material in the trash basket or pouring back into the original container. Dispose gathered material according to the instructions. When spills of large quantities, it is necessary to inform the rescue service.

Reference to other sections

View sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Store in a tightly closed original packaging in dry ventilated area. Do not store together with alkalis, metal, metal oxides. Do not damage packaging. Keep container in the temperature not lower than -10°C and not more than +35°C and away from heat, direct sunlight. Best before: 24 months after date of production.

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.

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

including any incompatibilities

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 gas in the air to exceed allowable threshold. Use appropriate personal protective equipment as indicated in Section 8. Do not use aluminum and iron tools. By diluting the mixture cautiously pour into water.

Specific end use(s)

For the professional use only.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters according to HN 23:2007 in Lithuania:

CAS No.	Name	Allowable concentration
7664-38-2	phosphoric acid...%, orthophosphoric acid...%	IPRD 1 mg/m ³ ; TPRD 2 mg/m ³

Notes: IPRD - long-term exposure limit value; TPRD – short-term exposure limit value.

DNEL (workers):

CAS No.	Name	Effects
7664-38-2	phosphoric acid...%, orthophosphoric acid...%	long-term, systemic, inhalation: 10,7 mg/m ³ long-term, local, inhalation: 1 mg/m ³
85536-14-7	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	long-term, systemic, inhalation: 12 mg/m ³ , dermal: 170 mg/kg bw/day long-term, local, inhalation: 12 mg/m ³
15763-76-5	sodium p-cumenesulphonate	long-term, systemic, inhalation: 26,9 mg/m ³ , dermal: 136,25 mg/kg bw/day long-term, local, dermal: 96 µg/cm ²

Dermal: when mixture is diluted 1,7 times, effects as corrosive; when 4,3 – 1,7 times – causes irritation.

DNEL (general population):

CAS No.	Name	Effects
7664-38-2	phosphoric acid...%, orthophosphoric acid...%	long-term, systemic, inhalation: 4,57 mg/m ³ , oral: 100 µg/kg bw/day long-term, local, inhalation: 360 µg/m ³
85536-14-7	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	long-term, systemic, inhalation: 3 mg/m ³ , dermal: 85 mg/kg bw/day, oral: 850 µg/kg bw/day long-term, local, inhalation: 3 mg/m ³
15763-76-5	sodium p-cumenesulphonate	long-term, systemic, inhalation: 6,6 mg/m ³ , dermal: 68,1 mg/kg bw/day, oral: 3,8 mg/kg bw/day long-term, local, dermal: 48 µg/cm ²

Dermal: when mixture is diluted 1,7 times, effects as corrosive; when 4,3 – 1,7 times – causes irritation.

PNEC:

7664-38-2	phosphoric acid...%, orthophosphoric acid...%	not determined/ no data.
85536-14-7	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	freshwater: 287 µg/l, marine water: 28,7 µg/l, sediment (freshwater): 287 µg/kg, sediment (marine water): 287 µg/kg, STP: 3,43 mg/l
15763-76-5	sodium p-cumenesulphonate	freshwater: 230 µg/l, marine water: 23 µg/l, sediment (freshwater): 862 µg/kg, sediment (marine water): 86,2 µg/kg, STP: 100 mg/l

Exposure controls

Appropriate engineering controls

General, local exhaust ventilation. Avoid the spills, and any contact with this

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

mixture, see Section 7. Avoid the spills, contact with ground and sewage system.

Personal protective equipment:

General protective and hygienic measures

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

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, rubber apron.

Eye protection

Protective safety glasses, face covering shields (EN 166).

Respiratory protection

In the case of insufficient ventilation, or in an emergency – the protection against aerosols must be used half masks with filtering (E P3 or ABEK1 P3) against harmful liquid aerosols, 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 - light yellowish greenish
Odor	Specific
pH, 100 %, 25°C	~ 1,7
pH, 100 %, 25°C	~ 0
The relative density, g/cm ³ , 20°C	1,28 – 1,30

10. STABILITY AND REACTIVITY

Reactivity	Stored and handled as prescribed/ indicated, hazardous reactions do not occur.
Chemical stability	Under normal conditions, and if strictly followed the rules of safe use, the mixture is stable.
Possibility of hazardous reactions	In contact with most metals, release hydrogen gas which can form explosive mixture with air.
Conditions to avoid/ incompatible materials	Avoid heat, light, alkalis, metals, metal oxides, iron and aluminum and its compounds.
Hazardous decomposition products	Reaction products depend on the substances/mixtures involved in the chemical reactions.

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	On the basis of chemical information, it can be said that the mixture is not characterized by toxicity, when swallowed by tested animals.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes severe eye damage.
Respiratory or skin sensitisation	Mixture's gas may cause an irritant effect for respiratory tract.
Germ cell mutagenicity	On the basis of chemical information, it can be said that the mixture is not characterized by germ cell mutagenicity: no evidence of mutagenic effect of components.
Carcinogenicity	On the basis of chemical information, it can be said that the mixture is not characterized by carcinogenicity: no evidence of carcinogenicity effect of components.
Reproductive toxicity	On the basis of chemical information, it can be said that the mixture is not characterized by reproductive toxicity: no evidence of reproductive toxicity effect of components.
STOT-single exposure	Mixture is corrosive and is expected to cause irritation to respiratory tract.
STOT-repeated exposure	Not determined/ no data.
Aspiration hazard	Not determined/ no data.
Additional toxicological information	The effect depends on the concentration and on time from one second to minute.

12. ECOLOGICAL INFORMATION

Toxicity	On the basis of chemical information, it can be said that mixture is not characterized by toxicity to aquatic organisms.
Persistence and degradability	Phosphoric acid is an inorganic substance, so persistence and degradability is not applicable. 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	Phosphoric acid dissociates into the ions and/ or reacts with the minerals (calcium, iron, aluminum). Before being released into waste water or sewage system must be diluted with water or neutralized.
Results of PBT and vPvB assessment	Components are not classified as PBT and vPvB substances.

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

Other adverse effects Threat to aquatic and soil organisms can be caused by changes in local environment's pH.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

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. Washed and dried packaging can be reused or given back to packaging waste management companies. Packaging waste code 15 01 02 plastic (including PET) packaging; 15 01 10 contaminated packaging or containing dangerous chemical residues.

14. TRANSPORT INFORMATION

Transport classification Land transport ADR / RID (international/internal transportation).

UN number 3264

UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Transport hazard class(es) 8 corrosive substances

Packing group II

Hazard labels 8

Environmental hazards Threat to the aquatic environment or the sewage system.

Special precautions for user Do not damage packaging.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

European and Commission Regulations (EC) No. 648/2004, 907/2006, 551/2009, 1907/2006, 1272/2008, 453/2010, 2015/830

Lithuanian hygiene norm HN 23:2007

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Chemical safety assessment Chemical safety assessment is conducted for present substances (phosphoric acid, benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).

16. OTHER INFORMATION

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

Acute Tox. 4 Acute toxicity, category 4.

SAFETY DATA SHEET

According to Commission Regulation (EU) No. 2015/ 830 Annex

	BS KRISTALFOAM	The date of compilation:	2009-07-27
		Revision:	2017-05-23
		Version No.	8

Skin Corr. 1B, 1C	Skin corrosion, subcategory 1B, 1C.
Eye Dam. 1	Serious eye damage, category 1.
Eye Irrit. 2	Serious eye irritation, category 2.
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic category 3.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Abbreviations and acronyms:	
DNEL	Derived no-effect level
LD50/ LC50	the amount (concentration) of a material, which causes the death of 50% of test animals
NOEC	No Observed Effect Concentration
PBT	Persistent, bioaccumulative and toxic chemical substances
vPvB	very persistent and very bioaccumulative chemical substances

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.