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



BS QUATRIL EXTRA

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

Product identifier

BS Quatril Extra

Product code(s) according to the Combined Nomenclature (CNC)

34029090, 38089420

Relevant identified uses of the substance/ mixture and uses advised against

Cleaning/ maintenance detergent for professional use - neutral disinfectant

based on cationic surfactants.

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: Acute toxicity, oral, category 4; Acute toxicity, inhalation, category 4; Skin corrosion/irritation, subcategory 1B; Skin sensitization, category 1; Respiratory sensitization, category 1; Specific target organ toxicity – single exposure, category 3; Hazardous to the aquatic environment, acute Category 1; Hazardous to the aquatic environment, chronic Category 1.





GHS09

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H332 Hamful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Precautionary statements:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P301+P312+P330 IF SWALLOWED: rinse mouth. Call a POISON CENTER/ doctor if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340+P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed

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

Orther 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, registration number	Classification
1.	68424-	270-	-	15 - 30	quaternary ammonium compounds,	Acute Tox. 4, H302
	85-1	325-2			benzyl-C12-16-alkyldimethyl,	Skin Corr. 1B, H314
					chlorides	Aquatic Acute 1, H400
					01-2119970550-39-0000	Aquatic Chronic 1, H410
2.	111-30-	203-	605-022-	5 – 15	glutaral, glutaraldehyde, 1,5-	Acute Tox. 3, H301
	8	856-5	00-X		pentanedial	Acute Tox. 2, H330
						Skin Corr. 1B, H314
						Resp. Sens. 1, H334
						Skin Sens. 1, H317
						STOT SE 3, H335
						Aquatic Acute 1, H400
					01-2119455549-26-0000	Aquatic Chronic 2, H411
3.	7173-	230-	612-131-			Acute Tox. 4, H302
	51-5	525-2	00-6			Skin Corr. 1B, H314

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4.	4. 67-63-0 200- 603-117- < 5			propan-2-ol, isopropanol		Flam. Liq.	2, H225		
		661-7	00-0					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:		
Cationic surfactants	15 – 30	

4. FIRST AID MEASURES

Description of 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. 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

01-2119457558-25-0000 | STOT SE 3, H336

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.

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 300 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.

Notes to physician: Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Glutaraldehyde may transiently worsen reversible airways obstruction including asthma or reactive airways disease. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress.

Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination.

Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. Probable mucosal damage may contraindicate the use of gastric lavage.

Exposure to vapors may result in skin sensitization. In sensitized individuals, re-exposure to very small amounts of

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vapor, mist, or liquid may cause a severe allergic skin reaction. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

The mixture is not flammable. Extinguishing media: water fog, dry chemical Extinguishing media

powder or foam. Fire-fighting 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 chemical substances or mixtures

used or stored together.

Advice for firefighters 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. 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.

View sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Reference to other sections

Store in a tightly closed original packaging in dry ventilated area. Do not store together with alkalis, acids, strong oxidizers, reducing agents. Do not damage packaging. Keep container in the temperature not lower than 0°C and not more than +25°C and away from heat, direct sunlight. Best before: 24 months after date of production.

Conditions for safe storage, including any incompatibilities 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 in the air to exceed allowable threshold. Use appropriate personal protective equipment as indicated in Section 8.

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	
111-30-8	glutaral, glutaraldehyde,	$NRD = 0.8 \text{ mg/m}^3, 0.2 \text{ ppm}$	UJ

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1,5-pentanedial			

67-63-0	propan-2-ol, isopropanol	$IPRD = 350 \text{ mg/m}^3, TPRD = 600 \text{ mg/m}^3$
Notes: NRI	O – not to be exceeded limit	value, IPRD - long-term exposure limit value, TPRD - short-term exposure

Notes: NRD – not to be exceeded limit value, IPRD - long-term exposure limit value, TPRD – short-term exposure limit value; U – acute effects, J – sensitizing effects.

DNEL (workers):

CAS No.	Name	Effects
111-30-8 glutaral, glutaraldehyde,		long-term, systemic, dermal: 6,25 mg/kg bw/day
	1,5-pentanedial	
7173-51-5	didecyldimethylammoniu	long-term, systemic, dermal: 8,6 mg/kg bw/day
	m chloride	

DNEL (general population):

CAS No.	Name	Effects
67-63-0	propan-2-ol, isopropanol	long-term, systemic, inhalation: 59 mg/m ³ , dermal: 319 mg/kg bw/day, oral:
		26 mg/kg bw/day

PNEC:

111-30-8	glutaral, glutaraldehyde,	freshwater: 2,5 µg/l, marine water: 200 ng/l, STP: 595 µg/l
	1,5-pentanedial	
7173-51-5	didecyldimethylammoniu	freshwater: 2 µg/l, marine water: 250 ng/l, STP: 800 µg/l
	m chloride	
67-63-0	propan-2-ol, isopropanol	freshwater: 140,9 mg/l, marine water: 140,9 mg/l, STP: 2,251 g/l

Exposure controls

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

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.

Eye protection Protective safety glasses, face covering shields.

Respiratory protection Must be used CE approved air-purifying respirator: full-face, organic vapor

cartridge with a highly toxic particulate pre-filter, type AP3.

Environmental impact control See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Color Clear, colorless

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Odor Specific

pH, 100 %, 25°C 6,0-8,0

The relative density, g/cm^3 , $20^{\circ}C$ 0,99 – 1,01

10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use/ store.

Chemical stability Under normal conditions, and if strictly followed the rules of safe use, the

mixture is stable.

Possibility of hazardous reactions Not determined/ no data.

Conditions to avoid/incompatible

materials

Avoid high temperatures, pressures, sparks, open flame, acids, alkalis, oxidizing, reducing agents. Avoid contact with metals: aluminum, carbon

steel, copper, iron, mild steel.

Hazardous decomposition products Reaction products depend on the substances/mixtures involved in the

chemical reactions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity On the basis of chemical information, it can be said that the mixture is

characterized by oral toxicity, category 4, and by inhalation toxicity, category

4.

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/irritation Causes severe eye damage. Vapor may cause eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction and allergic respiratory response.

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 May cause respiratory tract irritation.

STOT-repeated exposure Repeated skin contact may result in absorption of amounts which could cause

death. May cause nausea and vomiting.

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Aspiration hazard Aspiration into the lungs may occur during ingestion or vomiting, causing

tissue damage or lung injury.

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

characterized by acute toxicity, category 1, and chronic toxicity, category 1,

to aquatic organisms.

Persistence and degradability On the basis of chemical information 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 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.

Results of PBT and vPvB

assessment

Components are not classified as PBT and vPvB substances.

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.

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.

14. TRANSPORT INFORMATION

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

UN number 3265

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

Transport hazard class(es) 8 corrosive substances

Packing group II

Hazard labels 8+environmentally hazardous substance

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

Special precautions for userDo 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, 528/2012, 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 assessments aren't required for present substances.

16. OTHER INFORMATION

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

Flam. Liq. 2 Flammable liquid, category 2

Acute Tox. 2 Acute toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, subcategory 1B

Eye Irrit. 2 Eye corrosion/irritation, category 2

Aquatic Acute 1 Hazardous to the aquatic environment, acute, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, category 2

Resp. Sens. 1 Respiratory sensitization, category 1

Skin Sens. 1 Skin sensitization, category 1

STOT SE 3 Specific target organ toxicity – single exposure, category 3

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

DNEL Derrived 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.