

SAFETY DATA SHEET

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

| | | | |
|---|-------------------|--------------------------|------------|
|  | BS FATFREE | The date of compilation: | 2010-03-25 |
| | | Revision: | 2016-09-12 |
| | | Version No. | 6 |

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

| | |
|--|--|
| Product identifier | BS Fatfree |
| 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 – mildly alkaline foaming detergent for fatty surfaces. |
| 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

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|--|--|
| Classification of the substance/ mixture and label elements | Signal word: Warning Hazard class: Skin irritant, Category 2; Hazardous to aquatic environment, chronic, Category 3. Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. Precautionary statements: P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye (face) protection. |
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P302+P353 IF ON SKIN: Rinse skin with water/shower.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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. | 1310-73-2 | 215-185-3 | 011-002-00-6 | < 5 | Natrio hidroksidas; sodium hydroxide; caustic soda <i>01-2119457892-27-0000</i> | Skin. Corr. 1A; H314 |

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

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

| | |
|---------------------|---------|
| Anionic surfactants | 15 – 30 |
| Preservative | |

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. Take off contaminated clothing. 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 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 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 and seek immediate medical attention.

Most important symptoms and effects (acute and delayed):

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Effects on health seen as irritant.

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: water, water spray. 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. 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, sawdusts). 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

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|---|---|
| Precautions for safe handling | Store in a tightly closed original packaging in dry ventilated area. Do not store together with acids, strong oxidizers. Keep container in the temperature not lower than 0°C and not more than (+35°C) and away from heat. |
| 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 of chlorine 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 | Not determined/ no data. |
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Exposure controls

| | |
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| 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 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 body 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. Protective clothing, footwear. |
| Eye protection | Protective safety glasses, face covering shields. |
| Respiratory protection | In case of insufficient ventilation or accident - protection against aerosols must be used half masks with filter, for protection against harmful liquid aerosols – filtering half masks with valves to protect against gases and particles. |
| Environmental impact control | See sections 6 and 12. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|------------------|
| Form | Liquid, viscous |
| Color | Clear, yellowish |
| Odor | Specific |
| pH, 100 %, 20-25°C | > 9 |
| The relative density, g/cm ³ , 20°C | 1,01 – 1,04 |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Reactivity | Mixture is stable. |
| Chemical stability | Under normal conditions, and if strictly followed the rules of safe use, the mixture is stable. |
| Possibility of hazardous reactions | Exothermic reaction with acids and avoid contact with light metals, ammonium salts. |
| Conditions to avoid/ incompatible materials | Avoid heat, high temperatures, direct sunlight, acids, light metals. |
| Hazardous decomposition products | Reaction products depend on the substances/mixtures involved in the chemical reactions. |

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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 acute toxicity when swallowed by tested animals (rat), the rates do not exceed an acute toxicity's estimates. |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | Not determined/ no data. |
| 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 | Not determined/ no data. |
| 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

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|--------------------------------------|--|
| Toxicity | On the basis of chemical information, it can be said that mixture is characterized by toxicity, chronic category 3, to aquatic organisms (fishes, algae, bacteria). |
| 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 | Not determined/ no data. |
| 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 | Components are not classified as PBT and vPvB substances. |

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assessment

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. Waste code: 07 06 fats, grease, soaps, detergents, disinfectants and cosmetics waste; 20 municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions; 20 01 29* detergents containing hazardous substances; 20 01 30 detergents other than those mentioned in 20 01 29.

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 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 Not applicable.

Special precautions for user Do not damage packaging.

15. REGULATORY INFORMATION

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

Commission Regulation (EC) No. 286/2011; 1272/2008; 1907/2006; 2015/830.

Commission Regulation (EC) No. 551/2009.

HN 23:2007 Occupational exposure limit values. Measuring the Impact Assessment and General Requirements.

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

Chemical safety assessment Chemical safety assessment is conducted for present substance (sodium hydroxide).

16. OTHER INFORMATION

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

Skin Corr. 1A Skin corrosion/irritation, subcategory 1A.

H314 Causes severe skin burns and eye damage.

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Abbreviations and acronyms:

| | |
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| ECHA | European Chemical Agency |
| DNEL | Derived no-effect level |
| PNEC | Predicted No-Effect Concentration |
| NOAEL (NOEL) | No-observed-adverse-effect level |
| LOAEL | Lowest-observed-adverse-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.