

SAFETY DATA SHEET
ACCORDING TO REGULATION (EC) 1907/2006

Product name:	DUEL UNIVERSAL liquid laundry detergent				
Creation date:	13.12.2023.	Version: 3	Date of application:	20.08.2025.	Revision: -

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: **DUEL UNIVERSAL liquid laundry detergent**

Product identifier: not relevant.

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Universal liquid detergent for machine and hand washing laundry.

1.2.2 Uses advised against

Do not use for purposes other than those prescribed.

1.3. Details of the supplier of the safety data sheet

Manufacturer and distributor: BEOHEMIJA DOO, Pančevačka 84, 23000 Zrenjanin, tel: +381 60 023 0 023,

www.beohemija.com

e-mail: detergenti@beohemija.com

working time: Monday - Friday, 07-16h

1.4. Details of the supplier of the safety data sheet

Emergency: 112

Manufacturer: +381 60 023 0 023 (07-16h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye Irrit. 2, H319;

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram:

GHS07

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Signal word: WARNING

Hazard Statement:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear eye protection / face protection.

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.

P501 Dispose of contents/container in accordance with national regulation.

Additional hazard notice:

Not applicable.

Hazardous component (s) for labeling:

Not applicable.

Ingredients according to Regulation (EC) No 648/2004 on detergents: <5% anionic surfactants, non-ionic surfactants; perfumes (Benzyl salicylate, Geraniol, Hexamethylindanopyran, Hexyl Cinnamal, Linalool, Tetramethyl acetyloctahydronaphthalenes), enzymes, preservation agents (Phenoxyethanol, Benzisothiazolinone), optical brighteners.

2.3. Other hazards

PBT/vPvB

The chemical does not meet the criteria for identification.

Endocrine disrupting properties

The chemical has no endocrine disrupting properties.

The chemical does not contain PBT, vPvB and endocrine disrupting substances present in concentrations $\geq 0,1\%$.

Additional information

No information.

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Data on environmental effects

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Supstance name	Quantity (%)	REACH	CAS / EC	INDEX	Classification according to Regulation (EC) No 1272/2008 (CLP)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	< 5,00	01-2119488639-16-0020	68891-38-3/500-234-8	-	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412; <i>Specific Conc. Limits:</i> Eye Dam. 1, H318: C ≥10% Skin Irrit. 2, H315: 5% ≤ C < 10%
Alcohols, C12-18, ethoxylated	≤ 1,5	-	68213-23-0/500-201-8	-	Acute Tox. 4, H302; Eye Dam. 1, H318; Aquatic Chronic 3, H412;

The full text of the H labels can be found in Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Leave contaminated area - breathe fresh air. If symptoms develop and persist, seek medical attention.

Following skin contact

Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Rinse mouth with water (only if the victim is conscious).

Consult a physician. Show the physician the safety data sheet or label.

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4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Contact with skin may cause irritation (redness, itching).

Following eye contact

Strongly irritates the eyes. Redness, tearing, pain.

Following ingestion

May cause abdominal discomfort. May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Product itself is not flammable. Water spray.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. Smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing (BS EN 469) for firefighters (including helmets (BS EN 443), protective boots (BS EN 15090) and gloves (BS EN 659)) and self-contained breathing apparatus (SCBA) with a full face piece (BS EN 137).

Additional information

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Do not touch or walk through spilled material. Danger of slipping on spilled product. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

For emergency responders

Use personal protective equipment. High risk of slipping due to leakage/spillage of product. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Prevent release into the sewer, water, basements or confined areas. In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled containers, absorb the residue with absorbent material and dispose of according to local regulations. Absorb with inert material (sand, flintstone (diatomite soil), universal binder, sawdust). Dispose in accordance with applicable regulations (see Section 13).

OTHER INFORMATION

See Section 1 for contact information in case of emergency.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

The usual measures for preventive fire protection. Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

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Ensure adequate ventilation.

Measures to protect the environment

Avoid release to the environment.

Other measures

No information.

Advice on general occupational hygiene

Wear suitable protective equipment; see Section 8. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep container in a well ventilated place. Keep in a dry place. Protect against effects of weather. Protect from direct sunlight. Store between +5°C to 30°C. Keep away from food, drink and animal feeding stuffs.

Packaging materials

The original container of producer.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

Detailed instructions / recommendations for use are listed on the label on the package.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

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DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

8.2.1 Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Observe normal precautions that apply for handling with chemicals. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. The personal protective equipment is required only for professional use or for large packs (not for domestic packages). For consumer use, please follow the recommendations appearing on the product label.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

8.2.2 Personal protective equipment

Eye and face protection

If there is a risk of eye contact use safety glasses. Tight fitting protective goggles (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (BS EN ISO 374). The product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

Thermal hazards

No information.

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8.2.3 Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	green
Odour	pleasant
Melting point/freezing point	no relevant data
Boiling point or initial boiling point and boiling range	no relevant data
Flammability	no relevant data
Lower and upper explosive limit	no relevant data
Flash point	no relevant data
Auto-ignition temperature	no relevant data
Decomposition temperature	no relevant data
pH	6,8-8,0
Kinematic viscosity	no relevant data
Solubility	soluble in water
Partition coefficient n-octanol/water (log value)	no relevant data
Vapour pressure	no relevant data
Density	1,055 g/cm ³
Relative vapour density	no relevant data
Particle characteristics	no relevant data

9.2. Other information

9.2.1 Information with regard to physical hazard classes

The data is not available.

9.2.2 Other safety characteristics

Dynamic viscosity 300-700 mPas(20°C)

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product is non-reactive.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4 Conditions to avoid

Direct sunlight. Do not expose to temperatures below 5°C. Store at temperatures below 30°C.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on the available data for the substances listed in Section 3, the criteria for classification are not met. The above data refer to the examination of the ingredients of the mixture:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts, CAS 68891-38-3

LD50 (oral, rat): 4100 mg/kg (OECD Test Guideline 401)

LD50 (dermal, rat): >2000 mg/kg (OECD Test Guideline 402)

Alcohols, C12-18, ethoxylated, CAS 68213-23-0

LD50 (oral, rat): 300-2000 mg/kg (OECD Test Guideline 401)

Skin corrosion/irritation

Based on the available data for the substances listed in Section 3, the criteria for classification are not met. The above data refer to the examination of the ingredients of the mixture:

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts, CAS 68891-38-3

Rabbit OECD 404 irritating to the skin.

Alcohols, C12-18, ethoxylated, CAS 68213-23-0

No irritant effect (OECD Metoda 404)

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

Germ cell mutagenicity

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

Carcinogenicity

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

Reproductive toxicity

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

STOT-single exposure

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

STOT-repeated exposure

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

Aspiration hazard

Based on the available data for the substances listed in Section 3, the criteria for classification are not met.

11.2. Information on other hazards**11.2.1 Endocrine disrupting properties**The chemical does not contain endocrine disrupting substances in concentration $\geq 0,1\%$.**11.2.2 Other information**

The data is not available.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Use in accordance with good practice standards, avoid release to the environment.

Ecotoxicological studies of the mixture as a whole have not been conducted. The above data refer to the tested ingredients of the mixture:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts, CAS 68891-38-3

EC50 >1000 mg/l (fish *Pseudomonas putida*) (DIN 38412 T.8)

EC50/48h 7,2 mg/l (*Daphnia magna*) (OECD 202)

EC50/72 h 27 mg/l (algae *Desmodesmus subspicatus*) (OECD 201)

LC50/96h 7,1 mg/l (fish Zebra fish) (OECD 203)

NOEC/72h 0,93 mg/l (algae *Scenedesmus subspicatus*) (OECD 201)

Alcohols, C12-18, ethoxylated, CAS 68213-23-0

Toxicity to fish:

LC50 > 1 - 10 mg/l, *Leuciscus idus* (DIN EN ISO 7346-2)

Aquatic invertebrates:

EC50 > 1 - 10 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic flora:

EC50 > 1 - 10 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Acute effect:

EC10 > 0,1 - 1 mg/l, *Scenedesmus subspicatus*

Microorganisms/Effects on activated sludge:

EC0 > 100 mg/l, *Pseudomonas putida* (DIN 38412 Deo 8)

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation for components

Contained surfactants are biodegradable in accordance with the Regulation (EC) 648/2004 on detergents.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts, CAS 68891-38-3

Readily biodegradable, 100 % (28 days), Method: OECD Test Guideline 301B

Alcohols, C12-18, ethoxylated, CAS 68213-23-0

Readily biodegradable, > 60% (28 dana), Method: OECD 301D; EEC 92/69

12.3 Bioaccumulative potential

Partition coefficient for components

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts, CAS 68891-38-3

LogKow (octanol –water) <3

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The chemical does not contain endocrine disrupting substances present in concentrations $\geq 0,1\%$.

12.7 Other adverse effects

No information.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Avoid release to the environment. Do not allow product to reach drains/sewage systems. The recommended disposal method of the product is high-temperature incineration. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Waste codes / waste designations according to LoW

20 01 29* - detergents containing dangerous substances

07 06 99 - wastes not otherwise specified

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Cleaned uncontaminated packaging may be taken for recycling. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Waste codes / waste designations according to LoW

15 01 01 - paper and cardboard packaging

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15 01 02 - plastic packaging

15 01 10* - packaging containing residues of or contaminated by dangerous substances

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/ RID/ ADN/ IMDG/ ICAO TI: Not dangerous according to transport regulations.

14.2 UN proper shipping name

ADR/ RID/ ADN/ IMDG/ ICAO TI: Not dangerous according to transport regulations.

14.3 Transport hazard class(es)

ADR/ RID/ ADN/ IMDG/ ICAO TI: Not dangerous according to transport regulations.

14.4. Packing group

ADR/ RID/ ADN/ IMDG/ ICAO TI: Not dangerous according to transport regulations.

14.5. Environmental hazards

ADR/ RID/ ADN/ IMDG/ ICAO TI: Not dangerous according to transport regulations.

14.6. Special precautions for user

Not given/not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not given/not applicable.

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- Regulation (EC) No 648/2004 on detergents

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Special instructions

No information.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

SECTION 16: OTHER INFORMATION

The classification of the mixture was done using the calculation method in accordance with the CLP/GHS.

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ADR European agreement on the international transport of dangerous goods by road

ADN European Agreement on the International Carriage of Dangerous Goods by Inland Waterways

CAS Chemical Abstract Service - Number of a chemical compound and some mixtures

EU European Union - European Union

EC Number of the European Commission

EC50 Effective Concentration - Half of the maximum effective concentration

ICAO TI Technical instruction for the safe transport of dangerous goods by air

LC50 Lethal Concentration - Lethal concentration, the concentration of a chemical that kills 50% of the tested population

LD50 Lethal Dose - Lethal dose, the dose of a chemical that kills 50% of the tested population

IMDG International Regulations on the Maritime Transport of Dangerous Goods

RID European Agreement on the International Transport of Dangerous Goods by Rail

List of relevant H phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Full text of abbreviated classifications (GHS)

Acute Tox. 4 - Acute toxicity, hazard category 4

Skin Irrit. 2 - Skin irritation, hazard category 2

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Eye Irrit. 2 - Eye irritation, hazard category 2
Eye Dam. 1- Serious eye damage, hazard category 1
Aquatic Chronic 3 - Chronic Aquatic Toxicity, hazard category 3

Literature data, references and data sources:

<https://echa.europa.eu/>

Safety data sheet of the manufacturer of the raw materials that are part of the mixture.

Trainings:

Before starting work and handling the product, the employee should familiarize himself with the regulations related to health and safety at work, as well as environmental protection measures. It is especially necessary that they complete appropriate training for the safe handling of chemicals in the workplace and prescribed environmental protection measures.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.