



The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued 22.06.2018

1.1. Product identifier

Product name Shuffleboard Cleaner

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

Use of the substance / preparation Cleaning Spray to the playing field on shuffleboard.
Aerosol.

1.3. Details of the supplier of the safety data sheet

Importer

Company name European Shuffleboard AS
Office address Lybekkergata 2
Postal address c/o Mailboxes etc, Postboks 105, 0028 OSLO
Postcode 0184
City Oslo
Country Norway
Telephone number +47 47483353
Email post@europeanshuffleboard.com
Website <https://www.europeanshuffleboard.com/>
Enterprise No. 998067049

1.4. Emergency telephone number

Emergency telephone Telephone number: +44 08 45 46 47
Description: NHS Direct (UK)

Telephone number: 112
Description: United Kingdom

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 3; H229

Substance / mixture hazardous properties

Pressurized container: May explode when heated.

2.2. Label elements

Signal word

Warning

Hazard statements

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking.
 P251 Do not pierce or burn, even after use.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
 P501 Dispose of contents / container to godkjent avfallsmottak.

2.3. Other hazards

PBT / vPvB

PBT/vPvB assessment has not been performed.

Physicochemical effects

The vapours are heavier than air and will spread along the floor. Can form explosive gas-air mixtures.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Flam. Gas 1; H220; Press. Gas (Comp.);	≥ 1 ≤ 5 %	
2-butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0	Acute tox. 3; H301 Acute tox. 3; H311 Acute tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319	≥ 1 ≤ 5 %	
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	Flam. Gas 1; H220; Press. Gas (Comp.);	≥ 1 ≤ 5 %	

Substance comments

For substances without REACH registration number in section 3.2, no information has been provided by the subcontractor or manufacturer.
 See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General

Emergency telephone number: see section 1.4.

	In case of unconsciousness or severe accidents, call 112.
Inhalation	Fresh air and rest. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Get medical attention if any discomfort continues.
Ingestion	Not likely. Give some cream or vegetable oil. Do not induce vomiting. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Inhalation: Inhalation of aerosols may be irritating to the respiratory system. Skin contact: Parts of the chemical might be absorbed through the skin. Eye contact: May cause temporary eye irritation.
Delayed symptoms and effects	May cause skin defatting with prolonged exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Other information	Treat symptomatically. No specific information from the manufacturer.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. Foam. Powder.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground to sources of ignition. May form explosive gas/air mixtures.
Hazardous combustion products	May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO ₂).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Provide adequate ventilation. Use protective equipment as referred to in section 8. Do not smoke or use open fire, or other sources of ignition. Avoid inhalation of vapours and aerosols and contact with skin and eyes.
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6.2. Environmental precautions

Environmental precautionary measures Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up Aerosol cans are collected mechanically. Remove ignition sources and work with non-sparking tools. Absorb in vermiculite, dry sand or earth and place into containers. Collect in a suitable container and dispose as hazardous waste according to section 13.

6.4. Reference to other sections

Other instructions See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Provide adequate ventilation. Use protective equipment as referred to in section 8. Avoid contact with eyes and skin. Avoid inhalation of vapours and spray mists.

Protective safety measures

Safety measures to prevent fire Do not use near naked flames or glowing materials. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use only non-sparking tools. Ground / bond container and receiving equipment. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Additional information The vapours are heavier than air and will spread along the floor. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene Wash hands at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke during work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from sunlight.

Conditions for safe storage

Advice on storage compatibility Keep away from: Acids. Strong oxidizing agents. Food and feed.

Additional information on storage conditions Store in accordance with regulations for flammable goods.

Storage temperature Value: < 50 °C

7.3. Specific end use(s)

Specific use(s)

See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
2-butoxyethanol	CAS No.: 111-76-2	Limit value (8 h) : 25 ppm Limit value (short term) Value: 50 ppm Exposure limit letter Letter code: Sk Limit value (8 h) : 123 mg/ m ³ Limit value (short term) Value: 246 mg/m ³ Exposure limit letter Letter code: Sk	
Butane	CAS No.: 106-97-8	Limit value (8 h) : 600 ppm Limit value (8 h) : 1450 mg/ m ³ Limit value (short term) Value: 750 ppm Limit value (short term) Value: 1810 mg/m ³ Exposure limit letter Letter code: Carc	
Other Information about threshold limit values	Explanation of the notations: Carc = Capable of causing cancer and/or heritable genetic damage. (Only applies if Butane contains more than 0,1 % of buta-1,3-diene) Sk = Can be absorbed through the skin. References (laws/regulations): EH40/2005 Workplace exposure limits, with later amendments.		

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Technical measures to prevent exposure

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipments suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Wear tight-fitting goggles or face shield. Reference to relevant standard: EN 166 (Personal eye-protection. Specifications).
Additional eye protection measures	Eye wash facilities should be at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable gloves type	Nitrile. Butyl rubber. Viton rubber (fluor rubber).
Breakthrough time	Comments: Not specified by the manufacturer.
Thickness of glove material	Comments: Not specified by the manufacturer.
Hand protection equipment	Description: Use chemical resistant gloves. The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: BS-EN 374 (Protective gloves against chemicals and micro-organisms). BS-EN 420 (Protective gloves. General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: In case of inadequate ventilation: Use filtercombination A/P2 by spraying or aerosol formation. Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 12083 (Respiratory protective devices. Filters with breathing hoses, (Non-mask mounted filters). Particle filters, gas filters, and combined filters. Requirements, testing, marking).
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Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil. See also section 12.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol. Fluid.
Colour	Colourless.
Odour	Solvent. Slight odour.

Odour limit	Comments: Not specified by the manufacturer.
pH	Value: 8
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Comments: Not specified by the manufacturer.
Flash point	Comments: Not specified by the manufacturer.
Evaporation rate	Comments: Not specified by the manufacturer.
Flammability (solid, gas)	Not specified by the manufacturer.
Explosion limit	Comments: Not specified by the manufacturer.
Vapour pressure	Comments: Not specified by the manufacturer.
Vapour density	Comments: Not specified by the manufacturer.
Relative density	Value: ~ 1
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not specified by the manufacturer.
Spontaneous combustability	Comments: Not specified by the manufacturer.
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not specified by the manufacturer.
Explosive properties	Not specified by the manufacturer.
Oxidising properties	Not specified by the manufacturer.

9.2. Other information

Physical hazards

Content of VOC	Value: 10 %
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Other physical and chemical properties

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Under normal conditions and use there are not expected any reactivity hazards for this chemical.
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10.2. Chemical stability

Stability	The chemical is stable under normal conditions of storage and use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Arise in contact with inappropriate conditions and incompatible materials (sections 10.4 and 10.5) Polymerisation will not occur.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Acids. Strong oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	2-butoxyethanol
Acute toxicity	<p>Effect tested: LD50 Route of exposure: Oral Value: 250 mg/kg Animal test species: Rat</p> <p>Effect tested: LD50 Route of exposure: Dermal Value: 220 mg/kg Animal test species: Rabbit</p>

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.

Assessment of aspiration hazard, classification

Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion

Not likely, due to the packaging. May cause discomfort if swallowed.

In case of skin contact

Contains components which may penetrate the skin. May cause skin defatting with prolonged exposure.

In case of inhalation

Inhalation of aerosols may be irritating to the respiratory system.

In case of eye contact

May cause temporary eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability, comments

There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility

Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT assessment results

PBT assessment has not been performed.

vPvB evaluation results

vPvB assessment has not been performed.

12.6. Other adverse effects

Other adverse effects, comments

Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal

Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.

EWC waste code

EWC waste code: 160504 gases in pressure containers (including halons) containing dangerous substances
Classified as hazardous waste: Yes

Other information

Do not puncture or incinerate even when empty.
Do not empty into drains.

SECTION 14: Transport information

Dangerous goods Yes

14.1. UN number

ADR/RID/ADN 1950

IMDG 1950

ICAO/IATA 1950

14.2. UN proper shipping name

Proper shipping name English AEROSOLS

ADR/RID/ADN

ADR/RID/ADN AEROSOLS

IMDG AEROSOLS

ICAO/IATA AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN 2.2

Classification code ADR/RID/ADN 5A

IMDG 2.2

ICAO/IATA 2.2

14.4. Packing group

Comments Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant No

14.6. Special precautions for user

Special safety precautions for user Not specified by the manufacturer.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Transport in bulk (yes/no) No

Product name AEROSOLS, NON-FLAMMABLE

Additional information

Hazard label ADR/RID/ADN 2.2

Hazard label IMDG 2.2

Hazard label ICAO/IATA 2.2

ADR/RID Other information

Tunnel restriction code	E
Transport category	3

IMDG Other information

EmS	F-D, S-U
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SECTION 15: Regulatory information

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

References (laws/regulations)	<p>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.</p> <p>Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.</p> <p>The European Waste Catalogue (EWC)</p> <p>Dangerous Goods regulations</p> <p>Aerosol Dispensers Directive 75/324/EEC, including later amendments</p>
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant H-phrases (Section 2 and 3)	<p>H220 Extremely flammable gas.</p> <p>H229 Pressurised container: May burst if heated.</p> <p>H301 Toxic if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p>
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 3; H229
Key literature references and sources for data	Suppliers Safety data sheet dated: 29.05.2018
Abbreviations and acronyms used	<p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>vPvB: very Persistent and very Bioaccumulative</p> <p>EWC: European Waste Code (a code from the EU's common classification system for waste)</p> <p>LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.</p> <p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail</p>

	IMDG: The International Maritime Dangerous Goods Code IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation
Information added, deleted or revised	New Safety Data Sheet.
Checking quality of information	This SDS is quality controlled by Kiwa Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Version	1
Prepared by	Kiwa Teknologisk Institutt, Norway by Sissel Rogstad