



SAFETY DATA SHEET 5L SUPER PROFESSIONAL BEERLINE CLEANER C6

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name 5L SUPER PROFESSIONAL BEERLINE CLEANER C6

Product number 800-232-1119 C6

Container size 5L

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

Identified uses Beer dispensing equipment cleaning.

1.3. Details of the supplier of the safety data sheet

Supplier Mirius™

A Coventry Group Company

Woodhams Road Siskin Drive Coventry CV3 4FX

Tel: +44 (0) 02476 639 739 Fax: +44 (0) 02476 639 717 Email: sales@mirius.com

Contact person For content of safety data sheet:, sds@mirius.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human

health and/or the environment)

National emergency telephone In case of a medical emergency following exposure to a chemical call NHS Direct in England

number or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

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Hazard statements H314 Causes severe skin burns and eye damage.

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 local regulations.

Contains POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE

Detergent labelling < 5% chlorine-based bleaching agents, < 5% phosphates

Supplementary precautionary P405 Store locked up.

statements

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

POTASSIUM HYDROXIDE 1-5%

CAS number: 1310-58-3 EC number: 215-181-3 REACH registration number: 01-

2119487136-33-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 C;R35 Xn;R22

Skin Corr. 1A - H314 Eye Dam. 1 - H318

SODIUM HYPOCHLORITE 1-5%

CAS number: 7681-52-9 EC number: 231-668-3 REACH registration number: 01-

2119488154-34-XXXX

M factor (Acute) = 10 M factor (Chronic) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Met. Corr. 1 - H290 C;R34 R31 N;R50

Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

TETRAPOTASSIUM PYROPHOSPHATE 1-5%

CAS number: 7320-34-5 EC number: 230-785-7 REACH registration number: 01-

2119489369-18-XXXX

Classification

Eye Irrit. 2 - H319

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Provide eyewash station and safety shower.

Inhalation Remove affected person from source of contamination. Keep affected person warm and at

rest. Get medical attention immediately. For breathing difficulties, oxygen may be necessary.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.

Give plenty of water to drink. Do not induce vomiting. Get medical attention immediately.

Show this Safety Data Sheet to the medical personnel.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after

washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention

immediately. Continue to rinse.

Protection of first aidersFirst aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Chemical burns must be treated by a physician. Get medical attention

immediately.

Inhalation Severe irritation of nose and throat. May cause an asthma-like shortness of breath.

Ingestion This product is corrosive. Small amounts may cause serious damage. May cause chemical

burns in mouth, oesophagus and stomach.

Skin contact May cause serious chemical burns to the skin.

Eye contact This product is corrosive. A single exposure may cause the following adverse effects: Severe

irritation, burning, tearing and blurred vision. Prolonged contact causes serious eye and tissue

damage. Corneal damage.

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

and water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Contact with some metals eg. aluminium, zinc can produce flammable hydrogen.gas.

Hazardous combustion

products

Fire creates: Chlorine. Hydrogen chloride (HCl). Oxides of: Chlorine. Carbon.

5.3. Advice for firefighters

Protective actions during

firefighting

Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination. Spillages or uncontrolled

discharges into watercourses must be reported immediately to the Environmental Agency or

other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if safe to do so. Small Spillages: Flush

away spillage with plenty of water. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Collect and place in

suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13. See Section 11 for additional information on health

hazards. See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid the formation of mists. Provide

adequate ventilation. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Never add water directly to this product as it may cause a vigorous reaction or boiling. Always dilute by carefully pouring the

product into water.

Advice on general occupational hygiene

Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Eye wash facilities and emergency shower must be available when handling this product. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it

before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Store away from the

following materials: Acids. Oxidising materials.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

POTASSIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

SODIUM HYPOCHLORITE

Short-term exposure limit (15-minute): WEL 0.5 ppm 1.5 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments

In case of Chlorine emmission, the WEL for Chlorine should be observed: Short Term Exposure Limit (STEL) 1 ppm / 2.9 mg/m3. Long Term Exposure Limit (LTEL) 0.5 ppm / 1.5 mg/m3.

POTASSIUM HYDROXIDE (CAS: 1310-58-3)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³

General population - Inhalation; Long term local effects: 1 mg/m³

SODIUM HYPOCHLORITE (CAS: 7681-52-9)

DNEL Industry - Inhalation; Long term local effects: 1.55 mg/m³

Industry - Inhalation; Long term systemic effects: 1.55 mg/m³ Industry - Inhalation; Short term local effects: 3.1 mg/m³ Industry - Inhalation; Short term systemic effects: 3.1 mg/m³ Consumer - Inhalation; Long term local effects: 1.55 mg/m³ Consumer - Inhalation; Long term systemic effects: 1.55 mg/m³ Consumer - Inhalation; Short term local effects: 3.1 mg/m³ Consumer - Inhalation; Short term systemic effects: 3.1 mg/m³ Consumer - Oral; Long term systemic effects: 0.26 mg/kg/day

PNEC - Fresh water; 0.00021 mg/l

- Marine water; 0.000042 mg/l

Intermittent release; 0.00026 mg/lSTP; 4.69 mg/l

-;

TETRAPOTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)

DNEL Workers - Inhalation; Long term systemic effects: 44.08 mg/m³

General population - Inhalation; Long term systemic effects: 10.87 mg/m³

PNEC - Fresh water; 0.05 mg/l

- Marine water; 0.005 mg/l - Intermittent release; 0.5 mg/l

- STP; 50 mg/l

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Hand protection Wear protective gloves. Neoprene. Nitrile rubber. Polyvinyl chloride (PVC).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Provide eyewash station and safety shower. Wash at the end of each work shift and before

remove any clothing that becomes contaminated.

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Respiratory protectionNo specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit. Particulate filter, type

P2. Particulate filters should comply with European Standard EN143.

Environmental exposure

controls

Avoid releasing into the environment. Residues and empty containers should be taken care of

as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Faintly of chlorine.

pH (concentrated solution): 13.5 TYPICALLY

Relative density 1.080 TYPICALLY @ @ 20°C

Solubility(ies) Soluble in water.

Explosive under the influence

of a flame

Not considered to be explosive.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reactions with the following materials may generate heat: Strong acids. Reactions with the

following materials may generate heat: Water. In contact with some metals can generate

hydrogen gas, which can form explosive mixtures with air.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

The following materials may react violently with the product: Chlorohydrocarbons. Acids.

Reactions with the following materials may generate heat: Water.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Acids. Ammonia. Chlorinated hydrocarbons. Aluminium. Tin. Zinc.

10.6. Hazardous decomposition products

Hazardous decomposition

Chlorine. Contact with acids liberates toxic chlorine gas.

products

reactions

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effectsNo information available. Information given is based on data of the components and of similar

products.

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Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - oral

Notes (oral LD₅₀) Estimated value. Calculated from ingredient data.

ATE oral (mg/kg) 10,015.04

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns. Calculation method.

Serious eye damage/irritation

Serious eye damage/irritation Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation
Not sensitising. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitroDoes not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposureNot classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

General information Corrosive to skin and eyes.

Inhalation Spray/mists may cause respiratory tract irritation. A single exposure may cause the following

adverse effects: Coughing. Difficulty in breathing. May cause damage to mucous membranes

in nose, throat, lungs and bronchial system.

Ingestion May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact May cause serious chemical burns to the skin. Repeated exposure may cause skin dryness or

cracking.

Eye contact Causes burns. A single exposure may cause the following adverse effects: Corneal damage.

Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss

of sight.

Toxicological information on ingredients.

POTASSIUM HYDROXIDE

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Acute toxicity oral (LD50

mg/kg)

333.0

Species Rat

ATE oral (mg/kg) 333.0

SODIUM HYPOCHLORITE

Acute toxicity - oral

Acute toxicity oral (LD₅o

8,910.0

mg/kg)

Species Rat

ATE oral (mg/kg) 8,910.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Skin corrosion/irritation

Animal data Corrosive to skin. REACH dossier information. Dose: LD50 = 20g/kg bw, 2 days,

Rabbit

Serious eye damage/irritation

Serious eye

Corrosivity to eyes is assumed.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo REACH dossier information. Negative.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity -

REACH dossier information. No evidence of reproductive toxicity in animal studies.

fertility

SECTION 12: Ecological Information

There are no data on the ecotoxicity of this product. The product contains a substance which **Ecotoxicity**

is very toxic to aquatic organisms and which may cause long-term adverse effects in the

aquatic environment.

12.1. Toxicity

Toxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic

organisms.

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Acute aquatic toxicity

Acute toxicity - aquatic plants May cause long lasting harmful effects to aquatic life.

Acute toxicity - terrestrial Can cause damage to vegetation.

Ecological information on ingredients.

POTASSIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 80 mg/l,

Acute toxicity - aquatic

invertebrates

SODIUM HYPOCHLORITE

Acute aquatic toxicity

LE(C)₅₀ $0.01 < L(E)C50 \le 0.1$

M factor (Acute) 10

Acute toxicity - fish EC₅₀, 96 hours: 0.01-0.1 mg/l,

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 0.01-0.1 mg/l, Daphnia magna

Acute toxicity -

microorganisms

LOEC, : 0.375 mg/l, Activated sludge

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic)

12.2. Persistence and degradability

Persistence and degradability Degrades very slowly in nature.

Ecological information on ingredients.

SODIUM HYPOCHLORITE

Biodegradation The methods for determining the biological degradability are not

applicable to inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

SODIUM HYPOCHLORITE

Bioaccumulative potential Low potential for bioaccumulation.

Partition coefficient log Kow: -3.4174 REACH dossier information.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

Ecological information on ingredients.

SODIUM HYPOCHLORITE

Henry's law constant 0.076 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

SODIUM HYPOCHLORITE

Results of PBT and vPvB No data available. **assessment**

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods The packaging must be empty (drop-free when inverted). Wash with plenty of water. Dispose

of waste via a licensed waste disposal contractor. Reuse or recycle products wherever

possible.

Waste class EWC Code: 06 02 04

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1814

UN No. (IMDG) 1814

UN No. (ICAO) 1814

UN No. (ADN) 1814

14.2. UN proper shipping name

Proper shipping name

POTASSIUM HYDROXIDE, SOLUTION

(ADR/RID)

Proper shipping name (IMDG) POTASSIUM HYDROXIDE, SOLUTION

Proper shipping name (ICAO) POTASSIUM HYDROXIDE, SOLUTION

Proper shipping name (ADN) POTASSIUM HYDROXIDE, SOLUTION

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C5

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2R

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable. **Annex II of MARPOL 73/78**

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

Control of Pollution (Special Waste) Regulations 1980 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits. The Hazardous Waste Regulations 2005.

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EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at

work (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended)

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and

Directive 91/689/EEC on hazardous waste with amendments. Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance COSHH Essentials.

Technical Guidance WM2: Hazardous Waste.

ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets.

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

used in the safety data sheet STOT RE = Specific target organ toxicity-repeated exposure

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. PNEC: Predicted No Effect Concentration.

DNEL: Derived No Effect Level.

General information Only trained personnel should use this material.

Revision comments New revision number applied to comply with Commission Regulation (EU) No 2015/830 Of

28 May 2015' NOTE: Lines within the margin indicate significant changes from the previous

revision.

Revision date 06/07/2018

Revision 3

Supersedes date 14/06/2017

SDS number 20624

Risk phrases in full R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R34 Causes burns. R35 Causes severe burns.

R50 Very toxic to aquatic organisms.

Hazard statements in full H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.