

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

1.1. Product identifier

Product form : Mixture
 Product name : Alkaline POT
 Product code : 1110325
 Type of product : Mixture
 Product group : Cleaning product.

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

1.2.1. Relevant identified uses

Main use category : Cleansing agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Star Marine Chemicals
 Bunschotenweg 134
 3089 KC Rotterdam - The Netherlands
 T +31(0)105925831
info@starmarine.nl - www.starmarine.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Netherlands	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer B.00.118 Postbus 85500 3508 GA Utrecht	+31 30 274 88 88	Only for the purpose of informing medical personnel in cases of acute intoxications

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290
 Skin corrosion/irritation, Category 1 H314

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger
 Hazard statements (CLP) : H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.
 Precautionary statements (CLP) : P234 - Keep only in original container.
 P260 - Do not breathe dust, vapours, spray.
 P280 - Wear protective gloves, protective clothing, eye protection, face 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/shower.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3. Other hazards

Other hazards not contributing to the classification : None.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	5 - 15	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Potassium hydroxide	(CAS-No.) 1310-58-3 (EC-No.) 215-181-3 (REACH-no) 01-2119487136-33	< 5	C; R35	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Decyl D-glucoside	(CAS-No.) 68515-73-1 (EC-No.) 259-218-1 (REACH-no) 01-2119488530-36	< 5	Xi; R41	Eye Dam. 1, H318

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Take to hospital.
First-aid measures after skin contact : Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.
First-aid measures after eye contact : First prolonged rinsing with water (contact lenses to be removed if this is easily done), then take to a doctor.
First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

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

Symptoms/effects after inhalation : Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/effects after skin contact : Pungent. Severe burns. Pain. Redness.
Symptoms/effects after eye contact : Pungent. Pain. Redness. Blurred vision.
Symptoms/effects after ingestion : Pungent. Breathing difficulties. Vomiting. Blisters. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Powder. Foam. CO2.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None.
Explosion hazard : None.
Hazardous decomposition products in case of fire : None.

5.3. Advice for firefighters

Precautionary measures fire : No special precautions required.
Firefighting instructions : No specific firefighting instructions required.
Other information : None.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch spilled material. Remove contaminated clothing and shoes. Do not breathe vapour. Do not breathe fumes. Do not breathe spray.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb the product onto porous material.

6.4. Reference to other sections

See Headings 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle carefully. Avoid spillage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container tightly closed. Keep out of frost.

Storage area : Keep container tightly closed and in well ventilated place. Keep out of frost. Handle carefully.

Packaging materials : Suitable packing materials: Plastic.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Hand protection:

Nitrile rubber gloves. Breakthrough time: > 480 Min, (EN 374). Layer thickness: 0,35 mm. Always wash hands after handling the product

Eye protection:

Safety glasses. Face-shield

Skin and body protection:

Impermeable clothing

Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Universel mask (ABEK)

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : No data available
Odour : Characteristic.
Odour threshold : Not applicable

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pH	: 13.48 @ 20°C
pH solution	: /.
Relative evaporation rate (butylacetate=1)	: 0.3
Melting point	: 0 °C
Freezing point	: No data available
Boiling point	: 100 - 233 °C
Flash point	: /.
Critical temperature	: /.
Auto-ignition temperature	: No data available
Decomposition temperature	: /.
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 2332 Pa @ 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.059 kg/l @ 20°C
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 1 mm ² /s @ 20 °C
Viscosity, dynamic	: 1 mPa·s @ 20 °C
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

VOC content : 8.8 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Extremely high or low temperatures.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

10.5. Incompatible materials

Keep away from (strong) acids.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: See Heading 3 (Information on ingredients).

2-butoxyethanol (111-76-2)

LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Decyl D-glucoside (68515-73-1)

LD50 oral rat	>= 5000 mg/kg
LD50 dermal rabbit	>= 5000 mg/kg
LC50 inhalation rat (mg/l)	>= 50 mg/l/4h

Potassium hydroxide (1310-58-3)

LD50 oral rat	356 mg/kg
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Potassium hydroxide (1310-58-3)	
LD50 dermal rabbit	>= 5000 mg/kg
LC50 inhalation rat (mg/l)	>= 50 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 13.48 @ 20°C
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 13.48 @ 20°C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Alkaline POT	
Viscosity, kinematic	1 mm ² /s @ 20 °C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No data available.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

2-butoxyethanol	
LC50 fish 1	1474 mg/l (Oncorhynchus mykiss, 96h)
EC50 Daphnia 1	1550 mg/l (Daphnia, 48h)
EC50 72h algae (1)	911 mg/l
NOEC chronic crustacea	> 100 mg/l (Daphnia, 72h)
NOEC chronic algae	> 280 mg/l (72h)

Decyl D-glucoside	
LC50 fish 1	190 mg/l (Danio rerio)
EC50 Daphnia 1	> 100 mg/l
EC50 72h algae (1)	37 mg/l (Scenedesmus subspicatus)
NOEC chronic crustacea	> 100 mg/l (Daphnia, 72h)

12.2. Persistence and degradability

Alkaline POT	
Persistence and degradability	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Alkaline POT	
Bioaccumulative potential	No supplementary information available.

12.4. Mobility in soil

Alkaline POT	
Ecology - soil	Soluble in water. No supplementary information available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information	: No data available
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Comply with local regulations for disposal.
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Waste treatment methods : In case the undiluted product is discharged accidentally, neutralize to pH 7.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : 1814

14.2. UN proper shipping name

Proper Shipping Name (ADR) : POTASSIUM HYDROXIDE SOLUTION

Transport document description (ADR) : UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II, (E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8



14.4. Packing group

Packing group (ADR) : II

14.5. Environmental hazards

Dangerous for the environment : No

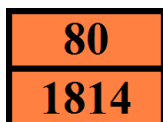
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Hazard identification number (Kemler No.) : 80

Orange plates :



Tunnel restriction code (ADR) : E

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 8.8 %

15.1.2. National regulations

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-butoxyethanol is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting : None of the components are listed
giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R35	Causes severe burns
R36/38	Irritating to eyes and skin
R41	Risk of serious damage to eyes
C	Corrosive
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product