Knockout Mould & Mildew Cleaner

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 31/03/2015 Revision date: 31/03/2015 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Name : Knockout Mould & Mildew Cleaner

Product code : KOMMGEN

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use,Industrial use,Professional use

Industrial/Professional use spec :

Use of the substance/mixture : Biocidal Surface Cleaner

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Barrettine
Barrettine Works
St Ivel Way
Warmley
Bristol
BS30 8TY

Tel: +44 (0) 1179 600 060 (Office hours only 8am - 5pm Mon - Thurs / 8am-4.30pm Fri)
Fax: +44 (0) 1179 352437
Email: sales@barrettine.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 1270 502891 (Out of Office Hours Emergency Number)

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

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) :

GHS07

Signal word (CLP)	:	Warning
Hazard statements (CLP)	:	H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	:	P102 - Keep out of reach of children P264 - Wash hands thoroughly after handling P280 - Wear eye protection, face protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS No) 68424-85-1 (EC no) 270-325-2	< 5	Xn; R22 C; R34 N; R50
alcohol ethoxylate	(CAS No) 68439-45-2	< 5	Xn; R22 Xi; R41
triethanolamine substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, ET, FI, IE, IT, LT, PT)	(CAS No) 102-71-6 (EC no) 203-049-8	< 5	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS No) 68424-85-1 (EC no) 270-325-2	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400
alcohol ethoxylate	(CAS No) 68439-45-2	< 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
triethanolamine substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, ET, FI, IE, IT, LT, PT)	(CAS No) 102-71-6 (EC no) 203-049-8	< 5	Not classified

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	:	Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	:	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse eyes with water as a precaution. Get medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact	:	Causes skin irritation.
Symptoms/injuries after eye contact	:	Causes serious eye irritation.

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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash Skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

triethanolamine (102-71-6)		
Austria	Local name	Triethanolamin
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK (ppm)	0,8 ppm
Austria	MAK Short time value (mg/m³)	10 mg/m³
Austria	MAK Short time value (ppm)	1,6 ppm
Austria	Remark (AT)	S
Belgium	Local name	Triéthanolamine
Belgium	Limit value (mg/m³)	5 mg/m³
Czech Republic	Local name	Triethanolamin
Czech Republic	Expoziční limity (PEL) (mg/m³)	5 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	0,8 ppm

triethanolamine (102-71-6)		
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	10 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1,6 ppm
Denmark	Local name	Triethanolamin (1994)
Denmark	Grænseværdie (langvarig) (mg/m³)	3,1 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	0,5 ppm
Estonia	Local name	Trietanoolamiin
Estonia	OEL TWA (mg/m³)	5 mg/m³
Estonia	OEL STEL (mg/m³)	10 mg/m³
Finland	Local name	Trietanoliamiini
Finland	HTP-arvo (8h) (mg/m³)	5 mg/m³
Ireland	Local name	Triethanolamine
Ireland	OEL (8 hours ref) (mg/m³)	5 mg/m³
Lithuania	Local name	Trietanolaminas
Lithuania	IPRV (mg/m³)	5 mg/m³
Lithuania	TPRV (mg/m³)	10 mg/m³
Lithuania	Remark (LT)	J
Portugal	Local name	Trietanolamina
Portugal	OEL TWA (mg/m³)	5 mg/m³
Slovenia	Local name	2,2',2''-nitrilotrietanol
Slovenia	OEL TWA (mg/m³)	5 mg/m³
Spain	Local name	Trietanolamina
Spain	VLA-ED (mg/m³)	5 mg/m³
Iceland	Local name	Tríetanólamín
Iceland	OEL (8 hours ref) (mg/m³)	5 mg/m³
Iceland	Notes (IS)	O
Norway	Local name	Trietanolamin
Norway	Gjennomsnittsverdier (AN) (mg/m³)	5 mg/m³
Switzerland	Local name	Triéthanolamine*
Switzerland	VME (mg/m³)	5 mg/m³
Switzerland	VLE (mg/m³)	20 mg/m³
Switzerland	Remark (CH)	4x15*
Australia	Local name	Triethanolamine
Australia	TWA (mg/m³)	5 mg/m³
USA - ACGIH	Local name	Triethanolamine
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA - ACGIH	Remark (ACGIH)	Eye & skin irr

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective clothing. Protective goggles. Gloves.

Hand protection	:	Wear protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Other information	:	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	clear.
Odour	:	characteristic.
Odour threshold	:	No data available
pH	:	10
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 60 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Soluble in water.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

alcohol ethoxylate (68439-45-2)	
LD50 oral rat	> 1000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

triethanolamine (102-71-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 6400 mg/kg bodyweight; Rat)
LD50 dermal rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit)

Skin corrosion/irritation : Causes skin irritation.
pH: 10

Serious eye damage/irritation : Causes serious eye irritation.
pH: 10

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

alcohol ethoxylate (68439-45-2)	
LC50 fish 1	1 - 10 mg/l (Pisces)
EC50 Daphnia 1	1 - 10 mg/l (Daphnia magna; Estimated value)
EC50 other aquatic organisms 1	> 100 mg/l (Activated sludge)
Threshold limit algae 1	1 - 10,Algae

triethanolamine (102-71-6)	
LC50 fish 1	> 10000 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 1	2038 mg/l (24 h; Daphnia magna; Locomotor effect)
LC50 fish 2	450 - 1000 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	609,88 mg/l (48 h; Ceriodaphnia dubia)
TLM fish 1	100 - 1000,Pisces
TLM other aquatic organisms 1	100 - 1000
Threshold limit algae 1	1.8 - 715,168 h; Scenedesmus quadricauda
Threshold limit algae 2	19 - 47,168 h; Microcystis aeruginosa

12.2. Persistence and degradability

Knockout Mould & Mildew Cleaner	
Persistence and degradability	Not established.

alcohol ethoxylate (68439-45-2)	
Persistence and degradability	Readily biodegradable in water.

triethanolamine (102-71-6)	
Persistence and degradability	Readily biodegradable in water. Very mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0,02 g O_2/g substance
Chemical oxygen demand (COD)	1,50 g O_2/g substance
ThOD	2,04 g O_2/g substance
BOD (% of ThOD)	0,02 % ThOD

12.3. Bioaccumulative potential

Knockout Mould & Mildew Cleaner	
Bioaccumulative potential	Not established.

alcohol ethoxylate (68439-45-2)	
Log Pow	3,01 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

triethanolamine (102-71-6)	
BCF fish 1	< <0.4-<3.9,42 days; Cyprinus carpio
Log Pow	-2,3 - 1,34 (Weight of evidence approach; -1; QSAR)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not dangerous goods in terms of transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No
Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - alcohol ethoxylate
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Knockout Mould & Mildew Cleaner - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - alcohol ethoxylate
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

CESIO recommendations : The surfactant(s) contained in this preparation complies(comply) 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.

15.1.2. National regulations

Germany

Water hazard class (WGK) : 3 - severe hazard to waters
WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
R22	Harmful if swallowed
R34	Causes burns
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU_NSC

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.