



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

1.1. Product identifier

Product form : Mixture
Name : Stone & Tile Intensive Cleaner
Product code : ECO/1

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
Use of the substance/mixture : Cleaning / stripper product

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Barrettine,
Barrettine Works,
St Ivel Way,
Warmley,
Bristol,
BS30 8TY

Marketing Company & Exclusive Distributor

AM Robb Ltd (T/A LTP)
Tone Industrial Estate,
Milverton Road,
Wellington,
Somerset,
TA21 0AN

Tel: +44 (0) 1179 600060 Office Hours only
Mon-Thurs 8am-5pm, Fri 8am – 4.30pm.
Fax: +44 (0) 01179 353437
Email: sales@barrettine.co.uk

Tel: +44 (0) 1823 666213 Office hours only
Mon–Fri 8.30am–5.30pm
Fax: +44 (0) 1823 665685
Email: info@ecoprotec.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	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]

Serious eye damage/eye irritation, Category 1 H318
Full text of hazard classes and H-statements : see section 16

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

Xi; R36
Full text of R-phrases: see section 16

2.2. Label elements

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

No labelling applicable





Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazardous ingredients :

2,2'-iminodiethanol, diethanolamine, Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Hazard statements (CLP) :

H318 - Causes serious eye damage

Precautionary statements (CLP) :

P102 - Keep out of reach of children
P280 - Wear eye protection, protective clothing, protective gloves
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a doctor
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Child-resistant fastening :

No

Tactile warning :

No

Nordic countries regulation

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Causes serious eye damage.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
triethanolamine substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, FI, IE, IT, LT, PT)	(CAS No) 102-71-6 (EC no) 203-049-8 (REACH-no) 02-2119675504-34-XXXX	5 - 15	Not classified
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	(EC no) 932-051-8	1 - 5	Xi; R38 Xi; R41
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0 (REACH-no) 01-2119475108-36-XXXX	1 - 5	Xn; R20/21/22 Xi; R36/38
2,2'-iminodiethanol, diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1	1 - 5	Xn; R22 Xn; R48/22 Xi; R41 Xi; R38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
triethanolamine substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, FI, IE, IT, LT, PT)	(CAS No) 102-71-6 (EC no) 203-049-8 (REACH-no) 02-2119675504-34-XXXX	5 - 15	Not classified





Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	(EC no) 932-051-8	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0 (REACH-no) 01-2119475108-36-XXXX	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2,2'-iminodiethanol, diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373

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 after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/injuries after eye contact : Serious damage to eyes.

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

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.





SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
EU	Local name	2-Butoxyethanol
EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin
Austria	Local name	2-Butoxyethanol
Austria	MAK (mg/m ³)	98 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	200 mg/m ³
Austria	MAK Short time value (ppm)	40 ppm
Austria	Remark (AT)	H
Belgium	Local name	2-Butoxyéthanol
Belgium	Limit value (mg/m ³)	98 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	246 mg/m ³
Belgium	Short time value (ppm)	50 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	2-Бутоксietанол•
Bulgaria	OEL TWA (mg/m ³)	98 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	246 mg/m ³
Croatia	Local name	2-Butoksietanol; (Etilen-glikol monobutil-eter; butilov celosolv)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	98 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	246 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	Naznake (HR)	K, EU* Xn
Czech Republic	Local name	2-Butoxyethanol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	21 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	41 ppm
Czech Republic	Remark (CZ)	D





2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
Denmark	Local name	Butylglycol (2000)
Denmark	Grænseværdie (langvarig) (mg/m ³)	98 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	EH
Finland	Local name	2-Butoksietanoli
Finland	HTP-arvo (8h) (mg/m ³)	98 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	250 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
France	Local name	2-Butoxyéthanol
France	VME (mg/m ³)	49 mg/m ³
France	VME (ppm)	2 ppm
France	VLE (mg/m ³)	246 mg/m ³
France	VLE (ppm)	30 ppm
Germany	Local name	2-Butoxy-ethanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	49 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm
Germany	Remark (TRGS 900)	DFG,EU,H,Y
Greece	OEL TWA (mg/m ³)	120 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Hungary	Local name	2-BUTOXIETANOL
Hungary	AK-érték	98 mg/m ³
Hungary	CK-érték	246 mg/m ³
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	Local name	2-Butoxyethanol (EGBE)
Ireland	OEL (8 hours ref) (mg/m ³)	98 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	246 mg/m ³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk , IOELV
Italy	Local name	Butossietanolo-2
Italy	OEL TWA (mg/m ³)	98 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m ³)	246 mg/m ³
Italy	OEL STEL (ppm)	50 ppm
Latvia	Local name	2-Butoksietanols, (etilēnglikola monobutilēteris, Butilcelosolvs)
Latvia	OEL TWA (mg/m ³)	98 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Lithuania	Local name	Etilenglikolio monobutileteris (butilglikolis, 2-butoksietanolis)
Lithuania	IPRV (mg/m ³)	50 mg/m ³
Lithuania	IPRV (ppm)	10 ppm





2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
Lithuania	TPRV (mg/m ³)	100 mg/m ³
Lithuania	TPRV (ppm)	20 ppm
Lithuania	Remark (LT)	O
Luxembourg	Local name	2-Butoxyéthanol
Luxembourg	OEL TWA (mg/m ³)	98 mg/m ³
Luxembourg	OEL TWA (ppm)	20 ppm
Luxembourg	OEL STEL (mg/m ³)	246 mg/m ³
Luxembourg	OEL STEL (ppm)	50 ppm
Malta	Local name	2-Butoxyethanol
Malta	OEL TWA (mg/m ³)	98 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m ³)	246 mg/m ³
Malta	OEL STEL (ppm)	50 ppm
Netherlands	Local name	2-Butoxyethanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm (2-Butoxyethanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	246 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	50 ppm (2-Butoxyethanol; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Remark (MAC)	H
Poland	Local name	2-Butoksyetanol (butoksyetylowy alkohol)
Poland	NDS (mg/m ³)	98 mg/m ³
Poland	NDSch (mg/m ³)	200 mg/m ³
Portugal	Local name	2-Butoxietanol (EGBE)
Portugal	OEL TWA (ppm)	20 ppm
Slovenia	Local name	2-butoksietanol (butilglikol)
Slovenia	OEL TWA (mg/m ³)	98 mg/m ³
Slovenia	OEL TWA (ppm)	20 ppm
Slovenia	OEL STEL (mg/m ³)	245 mg/m ³
Slovenia	OEL STEL (ppm)	50 ppm
Spain	Local name	2-Butoxietanol (Butil cellosolve; Éter monobutílico del etilenglicol)
Spain	VLA-ED (mg/m ³)	98 mg/m ³
Spain	VLA-ED (ppm)	20 ppm
Spain	VLA-EC (mg/m ³)	245 mg/m ³
Spain	VLA-EC (ppm)	50 ppm





2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.)
Sweden	Local name	Ethylene glycol monobutyl ether
Sweden	nivågränsvärde (NVG) (mg/m ³)	50 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	20 ppm
United Kingdom	Local name	2-Butoxyethanol
United Kingdom	WEL TWA (mg/m ³)	123 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	246 mg/m ³
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Norway	Local name	2-Butoksyetanol
Norway	Grenseverdier (AN) (mg/m ³)	50 mg/m ³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Merknader (NO)	H
Switzerland	Local name	2-Butoxyéthanol
Switzerland	VME (mg/m ³)	49 mg/m ³
Switzerland	VME (ppm)	10 ppm
Switzerland	VLE (mg/m ³)	98 mg/m ³
Switzerland	VLE (ppm)	20 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	2-Butoxyethanol
Australia	TWA (mg/m ³)	96,9 mg/m ³
Australia	TWA (ppm)	20 ppm
Australia	STEL (mg/m ³)	242 mg/m ³
Australia	STEL (ppm)	50 ppm
USA - ACGIH	Local name	2-Butoxyethanol (EGBE)
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
USA - OSHA	Local name	2-Butoxyethanol





2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	50 ppm
2,2'-iminodiethanol, diethanolamine (111-42-2)		
Austria	Local name	Diethanolamin
Austria	MAK (mg/m ³)	2 mg/m ³
Austria	MAK (ppm)	0,46 ppm
Austria	MAK Short time value (mg/m ³)	4 mg/m ³
Austria	MAK Short time value (ppm)	0,92 ppm
Austria	Remark (AT)	H,Sh
Belgium	Local name	Diéthanolamine
Belgium	Limit value (mg/m ³)	2 mg/m ³
Belgium	Limit value (ppm)	0,46 ppm
Belgium	Remark (BE)	D
Bulgaria	Local name	Диетаноламин
Bulgaria	OEL TWA (mg/m ³)	10 mg/m ³
Croatia	Local name	2,2'-iminodietanol; (dietanolamin)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	15 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	3 ppm
Croatia	Naznake (HR)	Xn
Czech Republic	Local name	Diethanolamin
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	1,2 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	2,3 ppm
Czech Republic	Remark (CZ)	P
Denmark	Local name	Diethanolamin (1996)
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0,46 ppm
Denmark	Anmærkninger (DK)	H
Estonia	Local name	Dietanolamiin
Estonia	OEL TWA (mg/m ³)	5 mg/m ³
Estonia	OEL TWA (ppm)	3 ppm
Estonia	OEL STEL (mg/m ³)	30 mg/m ³
Estonia	OEL STEL (ppm)	6 ppm
Finland	Local name	Dietanoliamiini
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	HTP-arvo (8h) (ppm)	0,46 ppm
France	Local name	Diéthanolamine
France	VME (mg/m ³)	15 mg/m ³
France	VME (ppm)	3 ppm
Greece	OEL TWA (mg/m ³)	15 mg/m ³
Greece	OEL TWA (ppm)	3 ppm
Lithuania	Local name	Dietanolaminas
Lithuania	IPRV (mg/m ³)	15 mg/m ³
Lithuania	IPRV (ppm)	3 ppm





2,2'-iminodiethanol, diethanolamine (111-42-2)		
Lithuania	TPRV (mg/m ³)	30 mg/m ³
Lithuania	TPRV (ppm)	6 ppm
Lithuania	Remark (LT)	O
Poland	Local name	2,2'-Iminodietanol
Poland	NDS (mg/m ³)	9 mg/m ³
Portugal	Local name	Dietanolamina
Portugal	OEL TWA (mg/m ³)	2 mg/m ³
Slovenia	Local name	dietanolamin
Slovenia	OEL TWA (mg/m ³)	15 mg/m ³
Spain	Local name	Dietanolamina
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Spain	VLA-ED (ppm)	0,46 ppm
Spain	Notes	Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), f (Reacciona con agentes nitrosantes que pueden dar lugar a la formación de N-Nitrosaminas carcinógenas.)
Sweden	Local name	Diethanolamine
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	3 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	30 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	6 ppm
Norway	Local name	2,2'-Iminodietanol
Norway	Grenseverdier (AN) (mg/m ³)	15 mg/m ³
Norway	Grenseverdier (AN) (ppm)	3 ppm
Switzerland	Local name	Diéthanolamine
Switzerland	VME (mg/m ³)	1 mg/m ³
Switzerland	VLE (mg/m ³)	1 mg/m ³
Switzerland	Remark (CH)	15 min
Australia	Local name	Diethanolamine
Australia	TWA (mg/m ³)	13 mg/m ³
Australia	TWA (ppm)	3 ppm
USA - ACGIH	Local name	Diethanolamine
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	Remark (ACGIH)	Liver & kidney dam
triethanolamine (102-71-6)		
Austria	Local name	Triethanolamin
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK (ppm)	0,8 ppm
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Austria	MAK Short time value (ppm)	1,6 ppm
Austria	Remark (AT)	S
Belgium	Local name	Triéthanolamine
Belgium	Limit value (mg/m ³)	5 mg/m ³





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

8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Ensure good ventilation of the work station.
- Personal protective equipment : Protective clothing. Protective goggles. Gloves.





- Hand protection : Protective gloves
 Eye protection : Safety glasses
 Skin and body protection : Wear suitable protective clothing
 Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment



- Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
 Appearance : Liquid.
 Colour : colourless
 Odour : characteristic.
 Odour threshold : No data available
 pH : 9 - 11
 Relative evaporation rate (butylacetate=1) : No data available
 Melting point : Not applicable
 Freezing point : No data available
 Boiling point : No data available
 Flash point : No data available
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Flammability (solid, gas) : Not applicable
 Vapour pressure : No data available
 Relative vapour density at 20 °C : No data available
 Relative density : No data available
 Density : 1 - 1,04 g/cm³
 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 non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.





10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

LD50 oral rat	1746 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	2,2 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	450 ppm/4h (Rat; Experimental value)

2,2'-iminodiethanol, diethanolamine (111-42-2)

LD50 oral rat	620 mg/kg (Rat)
LD50 dermal rabbit	7640 mg/kg (Rabbit)

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

LD50 oral rat	2240 mg/kg
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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 : Not classified
pH: 9 - 11

Serious eye damage/irritation : Causes serious eye damage.
pH: 9 - 11

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

LC50 fish 1	1474 ppm (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Static system; Fresh water; Experimental value)
EC50 Daphnia 1	1550 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	911 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)





2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
Threshold limit algae 2	88 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
2,2'-iminodiethanol, diethanolamine (111-42-2)	
LC50 fish 1	1664 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 2	55 mg/l (EC50; 48 h)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	
LC50 fish 1	4,1 - 7,5 mg/l (96h)
EC50 Daphnia 1	8,8 mg/l (48h)
triethanolamine (102-71-6)	
LC50 fish 2	450 - 1000 mg/l (LC50; 96 h; Lepomis macrochirus)

12.2. Persistence and degradability

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.
2,2'-iminodiethanol, diethanolamine (111-42-2)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0,22 g O ₂ /g substance
Chemical oxygen demand (COD)	1,52 g O ₂ /g substance
ThOD	2,13 g O ₂ /g substance
BOD (% of ThOD)	0,10
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

12.3. Bioaccumulative potential

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
Log Pow	0,81 (Test data; 20 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
2,2'-iminodiethanol, diethanolamine (111-42-2)	
Log Pow	-2,18 - -1,43 (Experimental value)
Bioaccumulative potential	Bioaccumulation: Not applicable.
triethanolamine (102-71-6)	
BCF fish 1	< <0.4-<3.9,BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value
Log Pow	-2,3 - 1,34 (Weight of evidence approach; -1; QSAR)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

12.4. Mobility in soil

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
Surface tension	0,065 N/m (20 °C; Calculated value)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available





SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Waste disposal recommendations : Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not dangerous goods in terms of transport regulations				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

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	Power Stripper - 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve
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	Power Stripper - 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances





15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low 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

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 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
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.

