

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date first issue: 01/04/2009 Review date: 26/11/2020 Supersedes: 15/11/2019 Version: 6.0

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

1.1. Product identifier

Product form : Mixture

Product name : 2WORK KITCHEN CLEANER DEGREASER

Product code : 2W07250

Type of product : Biocidal products (e.g. Disinfectants, pest control), Detergent

Product group : Mixture

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Cleaner

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

VOW EUROPE LTD MAGNA PARK HARRIER PARKWAY LUTTERWORTH, LE17 4XT T: 0844 980 8000 WWW.VOWEUROPE.COM

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

#### **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 Dam. 1
 H318

 Aquatic Chronic 3
 H412

Full text of hazard classes and 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

CLP Signal word : Danger

Hazardous ingredients : Monoethanolamine; Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl,

chlorides; Isotridecanol, ethoxylated

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P102 - Keep out of reach of children.

P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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.

P362 - Take off contaminated clothing.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isotridecanol, ethoxylated	(CAS-no) 69011-36-5 (Einecs nr) 931-138-8 (EG annex nr) / (REACH-no) Exempted	5 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
3-butoxy-2-propanol	(CAS-no) 5131-66-8 (Einecs nr) 225-878-4 (EG annex nr) 603-052-00-8 (REACH-no) 01-2119475527-28	3-5	Eye Irrit. 2, H319 Skin Irrit. 2, H315
Diethylene glycol monobutyl ether	(CAS-no) 112-34-5 (Einecs nr) 203-961-6 (EG annex nr) 603-096-00-8 (REACH-no) 01-2119475104-44	1 – 3	Eye Irrit. 2, H319
Monoethanolamine	(CAS-no) 141-43-5 (Einecs nr) 205-483-3 (EG annex nr) 603-030-00-8 (REACH-no) 01-2119486455-28	1 – 3	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Aquatic Chronic 3, H412
Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides	(CAS-no) 68424-85-1 (Einecs nr) 270-325-2	1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Ethoxylated Alcohol	(CAS-no) 157627-86-6/160901-19- 9/68551-12-2/68439-50-9 (Einecs nr) 500-337-8/500-457-0/500- 221-7/500-213-3 (EG annex nr) / (REACH-no) Exempted	0.1 – 1	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Monoethanolamine	(CAS-no) 141-43-5 (Einecs nr) 205-483-3 (EG annex nr) 603-030-00-8 (REACH-no) 01-2119486455-28	( 5 ≤C ≤ 100) STOT SE 3, H335

Full text of H-statements: see section 16

# **SECTION 4: First aid measures** 4.1. Description of first aid measures

General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

Inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

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Skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat

with constricting sensation of the larynx and difficulty in breathing.

Acute effects skin : Causes skin irritation. Red skin.

Acute effects eyes : Causes serious eye damage. redness, itching, tears.

Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal

pain, nausea.

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

No additional information available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Water.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

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 the 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 liquid enters sewers or public waters. Avoid release to the environment.

#### 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 hands, forearms and face thoroughly after handling.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Keep container closed when not in use.

Packaging materials : polyethylene. stainless steel.

#### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Monoethanolamine (141-43-5)	
EU - Occupational Exposure Limits	
Local name	2-Aminoethanol
IOELV TWA (mg/m³)	2.5 mg/m³
IOELV TWA (ppm)	1 ppm

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Monoethanolamine (141-43-5)		
IOELV STEL (mg/m³)	7.6 mg/m³	
IOELV STEL (ppm)	3 ppm	
Notes	skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Limits		
Local name	2-Aminoethanol	
WEL TWA (mg/m³)	2.5 mg/m³	
WEL TWA (ppm)	1 ppm	
WEL STEL (mg/m³)	7.6 mg/m³	
WEL STEL (OEL STEL) [ppm]	3 ppm	
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)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

Diethylene glycol monobutyl ether (112-34-5)		
Ireland - Occupational Exposure Limits		
Local name	2-(2-Butoxyethoxy)ethanol	
OEL (8 hours ref) (mg/m³)	67.5 mg/m³	
OEL (8 hours ref) (ppm)	10 ppm	
OEL (15 min ref) (mg/m3)	101.2 mg/m³	
OEL (15 min ref) (ppm)	15 ppm	
Notes (IE)	IOELV	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	2-(2-Butoxyethoxy)ethanol	
WEL TWA (mg/m³)	67.5 mg/m³	
WEL TWA (ppm)	10 ppm	
WEL STEL (mg/m³)	101.2 mg/m³	
WEL STEL (OEL STEL) [ppm]	15 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

# 8.2. Exposure controls

# Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:	
Wear protective gloves.	

Eye protection:	
Chemical goggles or safety glasses	

Protective equipment:	
Wear suitable protective clothing	

Respiratory protection:	
Not required	

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#### 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: LiquidPhysical state/form: Liquid.Colour: Colourless.Odour: Characteristic.Odour threshold: No data available

pH : 11 – 11.4

Relative evaporation rate (butylacetate=1) : No data available

Melting point/range : 0 °C

Freezing point : No data available

Boiling point/Boiling range : 100 °C

Flash point : No data available
Autoignition 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 : 1

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

VOC content : 30 g/l

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 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

No additional information available

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### **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

Monoethanolamine (141-43-5)	
LD50 oral rat	1515 mg/kg
LD50 dermal rabbit	2504 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h

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ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

3-butoxy-2-propanol (5131-66-8)	
LD50 oral rat	3300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2800 - 4500
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Vapours)	35 mg/l/4h
ATE CLP (oral)	3300 mg/kg bodyweight
ATE CLP (dermal)	2000 mg/kg bodyweight
ATE CLP (vapours)	35 mg/l/4h

Diethylene glycol monobutyl ether (112-34-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal	2764 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 196 mg/l
ATE CLP (dermal)	2764 mg/kg bodyweight
ATE CLP (dust,mist)	5000 mg/m³

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)	
LD50 oral rat	795 mg/kg
ATE CLP (oral)	795 mg/kg bodyweight

Isotridecanol, ethoxylated (69011-36-5)	
LD50 oral rat	> 300 (≤ 2000) mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (oral)	500 mg/kg

Skin corrosion/irritation : Causes skin irritation.

pH: 11 – 11.4

Serious eye damage/irritation : Causes serious eye damage.

pH: 11 - 11.4

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Isotridecanol, ethoxylated (69011-36-5)	
NOAEL (oral, rat)	> 250 mg/kg bodyweight

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

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3-butoxy-2-propanol (5131-66-8)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	350 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

Additional information : 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

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

3-butoxy-2-propanol (5131-66-8)	
LC50 fish 1	> 560 mg/l Poecilia reticulata (Guppy)
EC50 Daphnia 1	> 1000 mg/l

Diethylene glycol monobutyl ether (112-34-5)	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 1000 mg/l
EC50 other aquatic organisms 1	> 1000 mg/l waterflea
EC50 other aquatic organisms 2	> 100 mg/l
ErC50 (algae)	> 100 mg/l

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)	
LC50 fish 1	0.85 mg/l
EC50 Daphnia 1	0.016 mg/l
EC50 72h algae (1)	0.02 mg/l
NOEC chronic crustacea	0.025 mg/l

Ethoxylated Alcohol (157627-86-6/160901-19-9/68551-12-2/68439-50-9)	
LC50 fish 1	0.1 – 1 mg/l (Danio rerio - OESO 203 - ECHA)
EC50 Daphnia 1	0.1 – 1 mg/l (Daphnia magna - ECHA)
ErC50 (algae)	0.1 – 1 mg/l
NOEC chronic fish	> 0.1 mg/l
NOEC chronic algae	0.14 mg/l (CESIO)

Isotridecanol, ethoxylated (69011-36-5)	
LC50 fish 1	> 1 mg/l
EC50 Daphnia 1	> 1 mg/l
ErC50 (algae)	1 – 10 mg/l

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#### 12.2. Persistence and degradability

FOAM CLEANER	
Persistence and degradability	Biodegradable. 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.

3-butoxy-2-propanol (5131-66-8)	
Biodegradation	90 % (28 d)

Diethylene glycol monobutyl ether (112-34-5)	
Persistence and degradability	Readily biodegradable.

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)	
Persistence and degradability	Biodegradable.
Biodegradation	> 90 %

# Ethoxylated Alcohol (157627-86-6/160901-19-9/68551-12-2/68439-50-9) Persistence and degradability Readily biodegradable.

Isotridecanol, ethoxylated (69011-36-5)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test. Not established.
12.3 Bioaccumulative notential	

FOAM CLEANER	
Bioaccumulative potential	No bioaccumulation.

Diethylene glycol monobutyl ether (112-34-5)	
Log Pow	0.56
Bioaccumulative potential	No bioaccumulation.

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)	
Partition coefficient n-octanol/water (Log Kow)	2.88
Bioaccumulative potential	No bioaccumulation.

Ethoxylated Alcohol (157627-86-6/160901-19-9/68551-12-2/68439-50-9)	
Bioaccumulative potential	No bioaccumulation.

Isotridecanol, ethoxylated (69011-36-5)	
Bioaccumulative potential	No bioaccumulation. Not established

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

# **FOAM CLEANER**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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, , ,	PBT: not relevant – no registration required vPvB: not relevant – no registration required
	VI VB. Not relevant — no registration required

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

Waste / unused products : Avoid release to the environment.

### **SECTION 14: Transport information**

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

ADR	IMDG	IATA
14.1. UN number		
Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

# 14.6. Special precautions for user

# Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

# 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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 30 g/l

Detergent Regulation (648/2004/EC): Labelling of contents:		
Component	%	
non-ionic surfactants	5-15%	
disinfectants		

### 15.1.2. National regulations

No additional information available

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#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 Data sources

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 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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
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 Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
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.		
H335	May cause respiratory irritation.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

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.