

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

### 1.1. Product identifier

Product form : Mixture  
Product name : FLOSEAL

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

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

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

Wessex Chemical Factors  
9, Crane Way, Woolsbridge Ind. Park,  
BH21 6FA Wimborne - United Kingdom  
T 0044 1202 823699 - F 0044 1202 813863  
[info@wessexchemicalfactors.co.uk](mailto:info@wessexchemicalfactors.co.uk) - [www.wessexchemicalfactors.co.uk](http://www.wessexchemicalfactors.co.uk)

### 1.4. Emergency telephone number

Emergency number : 0044 7973629367

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302  
Specific target organ toxicity — Repeated exposure, Category 2 H373  
Full text of H statements : see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R48/22  
Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazardous ingredients :

ethanediol, ethylene glycol

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) :

P260 - Do not breathe vapours, spray, mist  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P301+P312 - IF SWALLOWED: Call a POISON CENTER, a doctor if you feel unwell  
P314 - Get medical advice/attention if you feel unwell  
P330 - Rinse mouth  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH phrases :

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one(2634-33-5). May produce an allergic reaction

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 2.3. Other hazards

No additional information available

## 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]
ethanediol, ethylene glycol	(CAS No) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1	>= 50	Xn; R48/22	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
disodium tetraborate decahydrate, borax decahydrate substance listed as REACH Candidate (Disodium tetraborate, anhydrous)	(CAS No) 1303-96-4 (EC no) 215-540-4 (EC index no) 005-011-01-1	0.1 - 1	Repr.Cat.2; R60 Repr.Cat.2; R61 Xi; R36	Eye Irrit. 2, H319 Repr. 1B, H360FD
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	0.1 - 1	C; R35	Met. Corr. 1, H290 Skin Corr. 1A, H314
potassium benzoate	(CAS No) 582-25-2 (EC no) 209-481-3	< 1	Xi; R36	Eye Irrit. 2, H319
2-amino-2-methylpropanol	(CAS No) 124-68-5 (EC no) 204-709-8 (EC index no) 603-070-00-6	< 1	Xi; R36/38 R52/53	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
benzotriazole	(CAS No) 95-14-7 (EC no) 202-394-1	< 0.1	Xn; R22 Xi; R36 R52/53	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	(CAS No) 2634-33-5 (EC no) 220-120-9 (EC index no) 613-088-00-6	< 0.1	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Antifoam (silicone free)		< 0.1	Not classified	Not classified
dye		< 0.1	Not classified	Not classified

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
disodium tetraborate decahydrate, borax decahydrate	(CAS No) 1303-96-4 (EC no) 215-540-4 (EC index no) 005-011-01-1	(C >= 8.5) Repr. Cat. 2;R60-61	(C >= 8.5) Repr. 1B, H360FD
sodium hydroxide, caustic soda	(CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6	(0.5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35	( 0.5 =<C < 2) Eye Irrit. 2, H319 ( 0.5 =<C < 2) Skin Irrit. 2, H315 ( 2 =<C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314
2-amino-2-methylpropanol	(CAS No) 124-68-5 (EC no) 204-709-8 (EC index no) 603-070-00-6	(C >= 10) Xi;R36/38	
1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	(CAS No) 2634-33-5 (EC no) 220-120-9 (EC index no) 613-088-00-6	(C >= 0.05) R43	(C >= 0.05) Skin Sens. 1, H317

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 after inhalation	: Remove person to fresh air and keep comfortable for breathing. Do not apply mouth-to-mouth resuscitation. If breathing is difficult, trained personnel should give oxygen. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
First-aid measures after ingestion	: Rinse mouth. Give water to drink if victim completely conscious/alert. Get immediate medical advice/attention.

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

Symptoms/injuries	: The ethylene glycol present in this formulation may cause intoxication, central nervous system depression (incoordination, dizziness), respiratory failure, liver and kidney damage.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Prolonged or repeated contacts may cause dermatitis by loss of natural skin fats.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Dizziness. nausea, vomiting. Damage to kidneys and liver. Blurred vision. Cardiac disorders (arrhythmia). Breathing difficulties.

### 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. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

Fire hazard	: Combustible if heated.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide. particulates and dust.

### 5.3. Advice for firefighters

Firefighting instructions	: Contain the spreading of extinguishing fluids (this product may be hazardous for the environment).
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. Do not breathe spray, mist, dust, fume.
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#### 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".
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### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Stop leak without risks if possible.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Scoop absorbed substance into closing containers.
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. Wear personal protective equipment. Do not breathe vapours, spray, mist.
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. Protect from sunlight.
Incompatible products	: Strong oxidizing agents.
Incompatible materials	: Sources of ignition.

### 7.3. Specific end use(s)

No additional information available

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

FloSeal		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (8 hours) Particulate ethylene glycol
ethanediol, ethylene glycol (107-21-1)		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (8 hours) Vapour
United Kingdom	WEL TWA (ppm)	20 ppm (8 hours) Vapour
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (15 minutes) Vapour
United Kingdom	WEL STEL (ppm)	40 ppm (15 minutes) Vapour
United Kingdom	Remark (WEL)	Can be absorbed through the skin.

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protective equipment:

Safety glasses. Gloves. High gas/vapour concentration: gas mask with filter type A.

##### Hand protection:

EN 374 - 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
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
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
Self 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
Solubility	: completely miscible.
Log Pow	: No data available

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

Oxidizing agent. Strong acids. Strong bases. aluminium.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

#### sodium hydroxide, caustic soda (1310-73-2)

LD50 oral rat	2000 mg/kg
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#### disodium tetraborate decahydrate, borax decahydrate (1303-96-4)

LD50 oral rat	4500 - 5000 mg/kg
LD50 dermal rabbit	10000 mg/kg

#### ethanediol, ethylene glycol (107-21-1)

LD50 oral rat	7712 mg/kg bodyweight
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#### 2-amino-2-methylpropanol (124-68-5)

LD50 oral rat	2900 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

#### benzotriazole (95-14-7)

LD50 oral rat	500 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight

#### 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5)

LD50 oral rat	1020 mg/kg
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<b>sodium hydroxide, caustic soda (1310-73-2)</b>	
LC50 fishes 1	125 mg/l western mosquitofish ( <i>Gambusia affinis</i> )
EC50 other aquatic organisms 1	40.4 mg/l species of water flea ( <i>Ceriodaphnia</i> sp.)
<b>disodium tetraborate decahydrate, borax decahydrate (1303-96-4)</b>	
LC50 fishes 1	74 mg/l common dab ( <i>Limanda limanda</i> )
<b>ethanediol, ethylene glycol (107-21-1)</b>	
LC50 fishes 1	72860 mg/l Fathead minnow ( <i>Pimephales promelas</i> )
EC50 Daphnia 1	> 100 mg/l
NOEC chronic algae	> 100 mg/l
<b>2-amino-2-methylpropanol (124-68-5)</b>	
LC50 fishes 1	190 mg/l bluegill sunfish ( <i>Lepomis macrochirus</i> )
EC50 Daphnia 1	193 mg/l
EC50 72h Algae [mg/l] (1)	522 mg/l
NOEC chronic fish	100 mg/l
<b>benzotriazole (95-14-7)</b>	
LC50 fishes 1	154 - 210 mg/l Zebrafish ( <i>Danio rerio</i> )
EC50 Daphnia 1	107 mg/l
ErC50 (algae)	75 mg/l
NOEC chronic crustacea	32 mg/l
NOEC chronic algae	10 mg/l
<b>1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
LC50 fishes 1	0.8 mg/l rainbow trout ( <i>Oncorhynchus mykiss</i> )
EC50 Daphnia 1	3.7 mg/l

#### 12.2. Persistence and degradability

<b>ethanediol, ethylene glycol (107-21-1)</b>	
Persistence and degradability	Readily biodegradable.
Chemical oxygen demand (COD)	1.22 g O <sup>2</sup> /g substance
<b>2-amino-2-methylpropanol (124-68-5)</b>	
Persistence and degradability	Readily biodegradable.
<b>1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
Persistence and degradability	Biodegradable.

#### 12.3. Bioaccumulative potential

<b>sodium hydroxide, caustic soda (1310-73-2)</b>	
Bioaccumulative potential	No bioaccumulation.
<b>ethanediol, ethylene glycol (107-21-1)</b>	
Log Pow	-1.36
Bioaccumulative potential	Low.
<b>2-amino-2-methylpropanol (124-68-5)</b>	
Log Pow	-0.63
Bioaccumulative potential	Moderately bioaccumulative.
<b>1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
Bioaccumulative potential	Low.

#### 12.4. Mobility in soil

<b>FloSeal</b>	
Ecology - soil	Adsorbs into the soil.

#### 12.5. Results of PBT and vPvB assessment

Component	
sodium hydroxide, caustic soda (1310-73-2)	PBT: not relevant – no registration required
disodium tetraborate decahydrate, borax decahydrate (1303-96-4)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Component	
ethanediol, ethylene glycol (107-21-1)	PBT: not relevant – no registration required

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No.(IATA) : Not applicable  
UN-No.(ADN) : Not applicable  
UN-No. (RID) : Not applicable

### 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

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### - Air transport

Not applicable

### - Inland waterway transport

Not applicable

### - Rail transport

Not applicable

### 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 substances with Annex XVII restrictions

Contains substance on the candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4)

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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 — AcuteHazard, 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
Met. Corr. 1	Corrosive to metals, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360FD	May damage fertility. May damage the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life



# FLOSEAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction
R22	Harmful if swallowed
R35	Causes severe burns
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50	Very toxic to aquatic organisms
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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*