



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

## SAFETY DATA SHEET

# Blue Shield Hygiene 4 in 1 Foaming Washroom Cleaner

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

*Trade name:* Blue Shield Hygiene 4 in 1 Foaming Washroom Cleaner  
*Product no.:* BSH-FOZ-750

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

*Relevant identified uses of the substance or mixture:* Cleaning product  
*Use descriptors (UK REACH):*

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC 35	Washing and Cleaning Products (including solvent based products)

*Uses advised against:* Uses other than those identified are not recommended

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

*Company and address:* **The Blue Roll Company**  
Unit 1  
Orbital Industry Park  
LS10 1AG Leeds  
United Kingdom  
0330 183 4343  
*Contact person:* Sales  
*E-mail:* info@blueshieldhygiene.co.uk  
*Revision:* 16/06/2025  
*SDS Version:* 1.0  
*Date of previous version:* 16/06/2025 (1.0)

#### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

(NPIS) (24 hour service)  
General public:  
England - Dial 111 to reach NHS 111 (24 hour service)  
Scotland - Dial 112 to reach NHS 24 (24 hour service)  
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)  
See section 4 "First aid measures".

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.2. Label elements

*Hazard pictogram(s):* Not applicable.

*Signal word:* Not applicable.

*Hazard statement(s):* Not applicable.

*Precautionary statement(s):*

*General:* -

*Prevention:* -

*Response:* -

*Storage:* -

*Disposal:* -

*Hazardous substances:* Does not contain any substances required to report

*Additional labelling:* EUH210, Safety data sheet available on request.

Active substance(s):

Citric acid (1.5 g/100g)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (0.125 g/100g)

*Labelling of contents according to* < 5%

*Detergents Regulation (EC) No*

*648/2004 as retained and amended in*

*UK law:*

· Non-ionic surfactants

· Disinfectants

· Perfumes (ALPHA-ISOMETHYL IONONE/METHYL IONONES)

· Perfumes (ACETYLCEDRENE)

· Perfumes (BENZYL SALICYLATE)

### 2.3. Other hazards

*Additional warnings:* This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 UK-REACH: Index No.:	1-3%	Eye Irrit. 2, H319	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS No.: 68424-85-1 EC No.: 270-325-2 UK-REACH: Index No.:	<0.25%	Acute Tox. 4, H302 Skin Corr. 1B, H314	[19]
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	CAS No.: 127-51-5 EC No.: 204-846-3 UK-REACH: Index No.:	<0.05%	Aquatic Chronic 2, H411	[9]
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	CAS No.: 32388-55-9 EC No.: 251-020-3 UK-REACH: Index No.:	<0.05%	EUH006 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[9]
Benzyl salicylate	CAS No.: 118-58-1 EC No.: 204-262-9 UK-REACH: Index No.:	<0.05%	Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[9]
(2-methoxymethylethoxy)propanol	CAS No.: 34590-94-8 EC No.: 252-104-2 UK-REACH: Index No.:	<0.0015%		

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.



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## Other information

[9] Identified by EU as a fragrance ingredients, known to cause allergic contact dermatitis (Regulation (EC) No 1223/2009 on cosmetic products)

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### *General information:*

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### *Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### *Skin contact:*

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### *Eye contact:*

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### *Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### *Burns:*

Not applicable.

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

None known.

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

Treat symptomatically.

## Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

## 5.3. Advice for firefighters

No specific requirements.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

# SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

## 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:*

Keep only in original packaging.

*Storage conditions:*

Dry, cool and well ventilated

*Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	167 $\mu\text{g/kg bw/day}$
Long term – Systemic effects - Workers	Dermal	333 $\mu\text{g/kg bw/day}$
Long term – Systemic effects - General population	Inhalation	290 $\mu\text{g/m}^3$
Long term – Systemic effects - Workers	Inhalation	1.17 $\text{mg/m}^3$
Long term – Systemic effects - General population	Oral	167 $\mu\text{g/kg bw/day}$

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	44.6 $\mu\text{g/kg bw/day}$
Long term – Systemic effects - Workers	Dermal	375 $\mu\text{g/kg bw/day}$
Long term – Systemic effects - General population	Inhalation	1.45 $\text{mg/m}^3$
Long term – Systemic effects - Workers	Inhalation	8.22 $\text{mg/m}^3$
Long term – Systemic effects - General population	Oral	35.5 $\mu\text{g/kg bw/day}$

Benzyl salicylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	790 $\mu\text{g/kg bw/day}$
Long term – Systemic effects - Workers	Dermal	2.21 $\text{mg/kg bw/day}$
Long term – Systemic effects - General population	Inhalation	1.37 $\text{mg/m}^3$
Long term – Systemic effects - Workers	Inhalation	7.8 $\text{mg/m}^3$
Long term – Systemic effects - General population	Oral	790 $\mu\text{g/kg bw/day}$

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.4 $\text{mg/kg bw/day}$
Long term – Systemic effects - Workers	Dermal	5.7 $\text{mg/kg bw/day}$



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Long term – Systemic effects - General population	Inhalation	1.64 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	3.96 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	3.4 mg/kg bw/day

## PNEC

[3R-(3 $\alpha$ ,3 $\alpha$  $\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.74 $\mu$ g/L
Freshwater sediment		24.4 mg/kg
Intermittent release (freshwater)		8.6 $\mu$ g/L
Marine water		174 ng/L
Marine water sediment		2.44 mg/kg
Sewage treatment plant		10 mg/L
Soil		4.87 mg/kg

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.43 $\mu$ g/L
Freshwater sediment		443 $\mu$ g/kg
Intermittent release (freshwater)		14.3 $\mu$ g/L
Intermittent release (marine water)		1.43 $\mu$ g/L
Marine water		143 ng/L
Marine water sediment		44.3 $\mu$ g/kg
Sewage treatment plant		10 mg/L
Soil		87.8 $\mu$ g/kg

Benzyl salicylate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.03 $\mu$ g/L
Freshwater sediment		583 $\mu$ g/kg
Intermittent release (freshwater)		10.3 $\mu$ g/L
Marine water		103 ng/L
Marine water sediment		58.3 $\mu$ g/kg
Predators		52.7 mg/kg
Sewage treatment plant		10 mg/L
Soil		1.41 mg/kg

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		420 ng/L
Freshwater sediment		68 mg/kg
Intermittent release (freshwater)		160 ng/L
Intermittent release (marine water)		207 ng/L
Marine water		96 ng/L
Marine water sediment		15.75 mg/kg
Sewage treatment plant		160 µg/L
Soil		1.66 mg/kg

## 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

<i>General recommendations:</i>	Smoking, drinking and consumption of food is not allowed in the work area.
<i>Exposure scenarios:</i>	There are no exposure scenarios implemented for this product.
<i>Exposure limits:</i>	Occupational exposure limits have not been defined for the substances in this product.
<i>Appropriate technical measures:</i>	Apply standard precautions during use of the product. Avoid inhalation of vapours.
<i>Hygiene measures:</i>	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
<i>Measures to avoid environmental exposure:</i>	No specific requirements.

## Individual protection measures, such as personal protective equipment

*Generally:* Use only UKCA marked protective equipment.

*Respiratory Equipment:*

Type	Class	Colour	Standards	
No special when used as intended.				

*Skin protection:*

Recommended	Type/Category	Standards	
No special when used as intended.	-	-	

*Hand protection:*





According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
No special when used as intended	-	-	-	

*Eye protection:*

Type	Standards	
No special when used as intended.	-	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Blue
<i>Odour / Odour threshold:</i>	Pleasant, Sweet
<i>pH:</i>	2.0 - 3.0
<i>Density (g/cm<sup>3</sup>):</i>	1.01
<i>Kinematic viscosity:</i>	No data available.
<i>Particle characteristics:</i>	Does not apply to liquids.

#### Phase changes

<i>Melting point/Freezing point (°C):</i>	No data available.
<i>Softening point/range (°C):</i>	Does not apply to liquids.
<i>Boiling point (°C):</i>	No data available.
<i>Vapour pressure:</i>	No data available.
<i>Relative vapour density:</i>	No data available.
<i>Decomposition temperature (°C):</i>	No data available.

#### Data on fire and explosion hazards

<i>Flash point (°C):</i>	No data available.
<i>Flammability (°C):</i>	No data available.
<i>Auto-ignition temperature (°C):</i>	No data available.
<i>Lower and upper explosion limit (% v/v):</i>	No data available.

#### Solubility

<i>Solubility in water:</i>	Completely soluble
<i>n-octanol/water coefficient (LogKow):</i>	No data available.
<i>Solubility in fat (g/L):</i>	No data available.



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

## 9.2. Other information

*Oxidizing properties:* No data available.

*Other physical and chemical parameters:* No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Extremes of temperature

Storage in the open is not recommended.

Sunlight

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

### **STOT-single exposure**

Based on available data, the classification criteria are not met.

### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## **11.2. Information on other hazards**

### **Long term effects**

None known.

### **Endocrine disrupting properties**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### **Other information**

None known.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Based on available data, the classification criteria are not met.

### **12.2. Persistence and degradability**

Based on available data, the classification criteria are not met.

### **12.3. Bioaccumulative potential**

Based on available data, the classification criteria are not met.

### **12.4. Mobility in soil**

No data available.

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

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### **12.6. Endocrine disrupting properties**

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### **12.7. Other adverse effects**

None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

### Waste treatment methods

Product is not covered by regulations on dangerous waste.  
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

Not applicable.

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: REGULATORY INFORMATION

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

*Restrictions for application:*

No special.

*Demands for specific education:*

No specific requirements.

*Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:*

Not applicable.

*Labelling of contents according to Detergents Regulation (EC) No*

< 5%  
· Non-ionic surfactants



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

<i>648/2004 as retained and amended in UK law:</i>	<ul style="list-style-type: none"><li>· Disinfectants</li><li>· Perfumes (ALPHA-ISOMETHYL IONONE/METHYL IONONES)</li><li>· Perfumes (ACETYLCEDRINE)</li><li>· Perfumes (BENZYL SALICYLATE)</li></ul>
<i>Additional information:</i>	Not applicable.
<i>Sources:</i>	Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. In accordance with Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as retained and amended in UK law. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

## 15.2. Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

EUH006, Explosive with or without contact with air.  
H302, Harmful if swallowed.  
H314, Causes severe skin burns and eye damage.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H400, Very toxic to aquatic life.  
H410, Very toxic to aquatic life with long lasting effects.  
H411, Toxic to aquatic life with long lasting effects.  
H412, Harmful to aquatic life with long lasting effects.

### The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
PC 35 = Washing and Cleaning Products (including solvent based products)

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

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BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

Not applicable.

#### **The safety data sheet is validated by**

Anglian Chemicals

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

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Information in this safety data sheet cannot be used as a product specification.  
Country-language: GB-en