



## PRODUCT DESCRIPTION

M-Blue F&S Detergent is a heavy-duty, perfume-free multipurpose surface detergent suitable for floors, worktops, shelves detergent for cleaning floors, entrance ways, lobbies etc in municipal areas. Sachets contain a blend of biodegradable Chelates, Carbonates and biodegradable Surfactants.

The product is packed in convenient water-soluble sachet, allowing easy and safe cost and dosing control.

Sachets are supplied in the following Pack Sizes:-

Pack Size	Sachet Type	Order Code	Outer Pack
50 * 13g	PVA-OH	A14:50	Pouch
50 * 13g	Paper	PA14:50	Pouch

- Supplied in a convenient PVA-OH or Paper water soluble sachet within a compostable pouch.
  - Phosphate Free.
  - Perfume Free
  - EDTA Free.
  - Identifiable Colour.
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## USE INSTRUCTIONS

For general cleaning, remove any gross debris from the surface, place one sachet into an empty bucket and then fill with approximately 5ltr (half bucket) of clean water. Agitate the bucket to ensure the sachet fully dissolves. Mop the area to be cleaned, remembering to regularly refresh the solution on the mop head with clean liquid. Once the area has been cleaned, remove excess liquid by dry mopping and allow to air dry. For heavy soiling two sachets may be required.

Consider using appropriate signage to identify that cleaning is in progress and floors may be wet.

This product can also be used in scrubber drier machines.

Care should be taken on unsealed wood. The product is not suitable for Perspex and Acrylic plastic and care should be taken of decorative print finishes.


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<b>IDENTIFICATION OF THE MATERIAL</b>	
<b>Product Name</b>	<b>M-Blue F&amp;S Detergent use solution</b>
<b>Main Use</b>	Fragrance Free Heavy Duty Multi Purpose Cleaner for hard surfaces and floors.
<b>Uses Advised Against</b>	Not for Direct Oral Consumption Keep Out of Reach of Children Do Not Mix with other Chemicals/Detergents.
<b>Manufacturer</b>	PVA Hygiene, Unit 6 Havyat Business Park Havyat Road, Bristol, BS40 5PA
<b>Telephone</b>	+44 (0) 1934 862859

<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance</b>	Liquid
<b>Colour</b>	Blue
<b>pH</b>	>11

<b>CLASSIFICATION, PPE, FIRST AID AND DISPOSAL</b>	
<b>Health</b>	In use solutions of this product have no Health Classifications
<b>Physical</b>	In use solutions of this product have no Physical Classifications
<b>Environmental</b>	In use solutions of this product have no Environmental Classifications
<b>PPE</b>	No PPE is mandated for this product at use strength However, we suggest safety shoes and Gloves, and because of the high pH, eye protection if a risk assessment indicates splashing to eyes is possible.
<b>First Aid</b>	<p><b>EYES:-</b> May cause reddening, discomfort and blurred vision Rinse with Plenty of Water.</p> <p><b>SKIN:-</b> Repeated extended contact may result in skin dryness. Use a suitable re-moisturising cream and get medical attention if symptoms persist.</p> <p><b>INHALATION:-</b> Unlikely.</p> <p><b>INGESTION:-</b> A soapy taste may be reported, together with irritation to mouth and GI Tract rinse mouth thoroughly. If concerned seek medical advice Show the label or Safety Data sheet to the Physician.</p>
<b>Disposal</b>	Solutions can be disposed to normal sewers and septic tanks.

**TECHNICAL DATA SUMMARY**

Appearance	Pale Blue /Powder
Odour	Fresh
Foam	Low
pH of use solution 	11.7 – 10.2
Storage Temperature Range	0°C to +40°C
Shelf Life of Sachet	Minimum of 2 years under normal conditions of dry storage.

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**EMERGENCY DETAILS**

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product.

This product is registered with the UK National Poisons Information Service.

Office Hours Emergency Number +44 (0) 1934 862859

Outside Office Hours: - +44 (0)7967 149256 (This is for health, safety and environmental emergencies only, it is not for general enquires or ordering).

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**DISCLAIMER**

Whilst every effort is made to ensure that the information given in this product information sheet is accurate it is given without guarantee, since the conditions of use are beyond our control.

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : M-BLUE F&S Detergent  
UFI : G3DD-WA4E-011C-8YY3 (UFI for EU use only)  
Product code : PA14:50, A14:50

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : DETERGENT

##### 1.2.2. Uses advised against

Restrictions on use : Not for Oral Consumption, Not for Direct Application to Food Stuffs

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

##### Manufacturer

PVA HYGIENE  
UNIT 6 Havyat Business Park Havyat Road  
BS40 5PA Bristol – United Kingdom  
T +44 (0)1934 862 859  
[sales@pva-hygiene.co.uk](mailto:sales@pva-hygiene.co.uk)

#### 1.4. Emergency telephone number

Emergency number : 01934 862859 (Office Hours). For Immediate first aid advice in the UK call 111  
This product is registered with NPIS in the UK.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1, Sub-Category 1B H314  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H- and EUH-statements: see section 16

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

Note:- Use solutions are UNCLASSIFIED for Health, Environment and Physical Hazards.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Contains :

Sodium Metasilicate; Alcohols C9-11, Ethoxylated; REACTION PRODUCT OF BENZENE SULPHONIC ACID, C10-C14 SEC ALKYL DERIVS and BENZENE SULPHONIC ACID 4 METHYL AND SODIUM HYDROXIDE; Sodium Hydroxide

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.  
P264 - Wash Skin thoroughly after handling.

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## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

P273 - Avoid release to the environment.  
P280 - Wear protective gloves, eye protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P402+P404 - Store in a dry place. Store in a closed container.  
P501 - Dispose of contents to local regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT

This product does not contain any substances classified as vPvB.

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Other information : To the best of our knowledge this product contains no Endocrine disrupting substances.

## 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] and GB CLP Regulations
sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2 REACH-no: 01-2119485498-19	$\geq 30 - < 50$	Eye Irrit. 2, H319
$\beta$ -Alanine, N-(2-carboxyethyl)-,N-coco alykyl derivs.,Disodium Salt	CAS-No.: 90170-43-7 EC-No.: 290-476-8 REACH-no: 01-2119976233-35	$\geq 20 - < 30$	Eye Irrit. 2, H319
REACTION PRODUCT OF BENZENE SULPHONIC ACID, C10-C14 SEC ALKYL DERIVS and BENZENE SULPHONIC ACID 4 METHYL AND SODIUM HYDROXIDE	EC-No.: 932-051-8	$\geq 8 - < 15$	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Citric Acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3	$\geq 5 - < 8$	Eye Irrit. 2, H319 STOT SE 3, H335
Sodium Metasilicate	CAS-No.: 6834-92-0 EC-No.: 229-912-9 EC Index-No.: 014-010-00-8	$\geq 5 - < 8$	Skin Corr. 1B, H314 STOT SE 3, H335
Alcohols C9-11, Ethoxylated	CAS-No.: 68439-46-3	$\geq 3 - < 5$	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Sodium Hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	$\geq 1.5 - < 2$	Skin Corr. 1A, H314

# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Sodium Hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	( 0.5 ≤C < 2) Skin Irrit. 2, H315 ( 0.5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If medical advice is needed, have product container or label at hand. For immediate First Aid advice in the UK, dial 111. When it is safe to do so, remove the victim immediately from the source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If unconscious place in recovery position and seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention. If unconscious place in recovery position and seek medical advice.

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

Symptoms/effects	: Neat product is likely to cause burns. In use solutions will be unclassified, but may cause irritation with repeated skin contact.
Symptoms/effects after inhalation	: Unlikely route of exposure, but inhalation of dilute solution droplets may result in a sore throat.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye burns.
Symptoms/effects after ingestion	: Unlikely route of exposure without deliberate abuse. If sachets are swallowed they may swell and could block the throat and GI tract. If Powder is ingested, irritation and burning to the mouth and GI tract may occur, a soapy taste may be reported. Ingestion of diluted solution is unlikely to cause long term harm, but a soapy taste may be reported together with mild irritation to the lips, throat and GI tract.

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

Rinse with plenty of water. Check for abrasion to the surface of the eye from powder particles.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire.
Unsuitable extinguishing media	: Water.

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

Fire hazard	: The product is not flammable.
Hazardous decomposition products in case of fire	: On heating corrosive fumes may be produced.

### 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.
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# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### 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

Normal use solutions can be disposed to sewers and septic tanks. Large scale spillages or uncontrolled discharges into water systems must be reported to the relevant Environment Agency.

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

Methods for cleaning up : Collect and place spillage in suitable containers. Seal the containers and apply labelling to identify the material and hazards. For disposal see section 13 of this SDS. Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.

#### 6.4. Reference to other sections

For further information refer to section 13. See sections 2,8,12,13 &14.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Carefully comply with the instructions for use. Avoid contact with eyes.  
Hygiene measures : Always wash hands after handling the product.

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

Storage conditions : Store in a dry place. Store in a closed container.

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

This product is suitable for use for cleaning hard surfaces such as floors and walls. It is compatible with common materials of construction, but contact with unsealed wood and Perspex type plastics should be avoided. Although normal use solutions are unclassified, use of eye, hand and foot protection is recommended.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

M-BLUE F&S Detergent	
United Kingdom - Occupational Exposure Limits	
Remark	No exposure limits known for ingredients.
Sodium Hydroxide (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL TWA (OEL TWA) [1]	≤ 2 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	UK (HSE EH40/2005 (Fourth edition, 2020) Publication



# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. In normal use eye protection is not required. During manufacture and packing operations, eye protection is recommended. Refer to EN166 to select appropriate level of protection.

#### 8.2.2.2. Skin protection

##### Hand protection:

During normal use gloves are not required. During manufacture and packing operations, the use of gloves with a breakthrough time >60 minutes is recommended. Refer to EN374 to select appropriate level of protection. Rubber and PVC gloves are recommended. NOTE:- Use of gloves is a good general hygiene practice.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Note:- This would be very unusual in normal use.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

The PPE indicated in this SDS is not a COSHH assessment. It represents the PPE that should be considered for the neat product at all stages of the products life cycle, including manufacture, packing, distribution, use and disposal. Use solutions are unclassified, but for these we recommend use of gloves as minimum PPE.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Powder.
Colour	: Blue.
Odour	: odourless.

# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

Odour threshold	: No data available
pH	: 10.7 – 11.2 @1% wt/v
Relative evaporation rate (butylacetate=1)	: Not applicable.
Relative evaporation rate (ether=1)	: Not applicable
Relative evaporation rate (water=1)	: Not applicable
Relative evaporation rate (ethanol=1)	: Not applicable
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Relative vapour density at 20°C	: Not applicable
Relative density	: Not applicable
Relative gas density	: 0.45 – 0.55
Solubility	: Completely soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable

### 9.2. Other information

Minimum ignition energy	: Not applicable
Softening point	: Not applicable
VOC content	: Contains no VOC's
Volatility	: Non volatile

## 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 of use. Do not mix with other chemicals.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Store away from moisture in a closed container. Protect from sunlight.

### 10.5. Incompatible materials

Strong acids. Oxidizing agent. Do not mix with Bleach or products containing Sodium Hypochlorite, this could result in dangerous heating of the solution.

### 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 (oral)	: Not classified
Acute toxicity (dermal)	: Not classified

# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

Acute toxicity (inhalation) : Not classified

### Citric Acid (77-92-9)

LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set
ATE CLP (oral)	3000 mg/kg bodyweight

### Sodium Metasilicate (6834-92-0)

LD50 oral rat	1153 mg/kg
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
ATE CLP (oral)	1153 mg/kg bodyweight

### $\beta$ -Alanine, N-(2-carboxyethyl)-,N-coco alykyl derivs.,Disodium Salt (90170-43-7)

LD50 oral rat	≈ 2000 mg/kg
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### Alcohols C9-11, Ethoxylated (68439-46-3)

LD50 oral rat	300 – 2000 ml/kg
LD50 dermal rat	> 2000 ml/kg
ATE CLP (oral)	500 mg/kg bodyweight

### REACTION PRODUCT OF BENZENE SULPHONIC ACID, C10-C14 SEC ALKYL DERIVS and BENZENE SULPHONIC ACID 4 METHYL AND SODIUM HYDROXIDE

LD50 oral rat	≥ 3346 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), 95% CL: 3196 - 3503
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:

Skin corrosion/irritation : Causes severe skin burns.  
pH: 10.7 – 11.2 @1% wt/v

### Sodium Metasilicate (6834-92-0)

pH	12.6
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Serious eye damage/irritation : Causes serious eye damage.  
pH: 10.7 – 11.2 @1% wt/v

### Sodium Metasilicate (6834-92-0)

pH	12.6
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Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : This mixture is not classified as a carcinogen.  
Reproductive toxicity : This mixture has no reproductive/foetal harm classifications and is not expected to be a risk to expectant mothers.  
STOT-single exposure : Not classified

### Citric Acid (77-92-9)

STOT-single exposure	May cause respiratory irritation.
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### Sodium Metasilicate (6834-92-0)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

### Sodium Metasilicate (6834-92-0)

NOAEL (oral, rat, 90 days)	227 – 237 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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# M-BLUE F&S Detergent

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According to GB and EU REACH and CLP Regulations

Aspiration hazard : Not classified

M-BLUE F&S Detergent	
Viscosity, kinematic	Not applicable
sodium carbonate (497-19-8)	
Viscosity, kinematic	Not applicable
REACTION PRODUCT OF BENZENE SULPHONIC ACID, C10-C14 SEC ALKYL DERIVS and BENZENE SULPHONIC ACID 4 METHYL AND SODIUM HYDROXIDE	
Viscosity, kinematic	Not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Normal use solutions of this product are not classified for environmental harm.  
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.  
Not rapidly degradable

Citric Acid (77-92-9)	
LC50 - Fish [1]	48 mg/l Source: ECOTOX
Sodium Metasilicate (6834-92-0)	
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Alcohols C9-11, Ethoxylated (68439-46-3)	
LC50 - Fish [1]	1 – 10 mg/l
EC50 - Crustacea [1]	1 – 10 g/l
EC50 72h - Algae [1]	1 – 10 mg/l
REACTION PRODUCT OF BENZENE SULPHONIC ACID, C10-C14 SEC ALKYL DERIVS and BENZENE SULPHONIC ACID 4 METHYL AND SODIUM HYDROXIDE	
EC50 - Crustacea [1]	8.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	25 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.23 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '72 d'

### 12.2. Persistence and degradability

M-BLUE F&S Detergent	
Persistence and degradability	The Surfactants and Chelants used in this mixture are Biodegradable.

# M-BLUE F&S Detergent

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### 12.3. Bioaccumulative potential

#### M-BLUE F&S Detergent

Bioaccumulative potential	Not expected to Bioaccumulate.
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#### Citric Acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow)	-1.7 Source: ICSC
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#### Sodium Metasilicate (6834-92-0)

Partition coefficient n-octanol/water (Log Pow)	-5.65
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### 12.4. Mobility in soil

#### M-BLUE F&S Detergent

Additional information	soluble in water
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### 12.5. Results of PBT and vPvB assessment

#### M-BLUE F&S Detergent

This product does not contain any substances classified as PBT

This product does not contain any substances classified as vPvB.

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Disposal of this product must comply with local and national environmental legislation.  
Sewage disposal recommendations : Small volumes of use solution can be disposed of to sewage drains.

## SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1759	UN 1759	UN 1759	UN 1759	UN 1759
<b>14.2. UN proper shipping name</b>				
CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated)	CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated)	Corrosive solid, n.o.s. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated)	CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated)	CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated)
<b>Transport document description</b>				
UN 1759 CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated), 8, III, (E)	UN 1759 CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated), 8, III	UN 1759 Corrosive solid, n.o.s. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated), 8, III	UN 1759 CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated), 8, III	UN 1759 CORROSIVE SOLID, N.O.S. (Contains Sodium Metasilicate, Alcohols C9-C11 Ethoxylated), 8, III
<b>14.3. Transport hazard class(es)</b>				
8	8	8	8	8

# M-BLUE F&S Detergent


## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

ADR	IMDG	IATA	ADN	RID
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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
<5kg Derogation applies				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: C10
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Hazard identification number (Kemler No.)	: 80
Orange plates	: 
Tunnel restriction code (ADR)	: E
EAC code	: 2X

#### Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg

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CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

### Inland waterway transport

Classification code (ADN)	: C10
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: C10
Special provisions (RID)	: 274
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV, L4BN
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 80

### 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

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content : Contains no VOC's

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

GB REACH and CLP regulations.

UK HSE EH40 Publication.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Inclusion of EU UFI code and additional comments in section 7.

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant



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Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
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
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
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

Safety Data Sheet (SDS), EU

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.