

## SAFETY DATA SHEET

## Microflow-CXS 26-0-0+TE

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

## 1.1. Product identifier

## ▼ Trade name

Microflow-CXS 26-0-0+TE

## Product no.

OAI000279, OAI000280, OAI000281, OAI009421, OAI009438, OAI009540

## Unique formula identifier (UFI)

MKYN-5FCC-Y5CP-3410

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

## Relevant identified uses of the substance or mixture

Fertiliser

Restricted to professional users.

## Uses advised against

None known.

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

## Company and address

**Origin Amenity Solutions Limited**

1-3 Freeman Court

Jarman Way

Royston

Hertfordshire

SG8 5HW

United Kingdom

+44 (0)800 1387222 (Monday - Friday 09:00 - 17:00 GMT)

www.originamenity.com

## Contact person

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## E-mail

sds@originamenity.com

## Revision

12/05/2025

## SDS Version

6.0

## Date of previous version

21/11/2024 (5.0)

## 1.4. Emergency telephone number

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

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. Classification of the substance or mixture

Skin Sens. 1; H317, May cause an allergic skin reaction.

Repr. 1B; H360, May damage fertility or the unborn child.

## 2.2. Label elements

### Hazard pictogram(s)



### Signal word

Danger

### Hazard statement(s)

May cause an allergic skin reaction. (H317)

May damage fertility or the unborn child. (H360)

### Precautionary statement(s)

#### General

-

#### Prevention

Obtain special instructions before use. (P201)

Avoid breathing mist/vapour. (P261)

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

IF exposed or concerned: Get medical advice/attention. (P308+P313)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

#### Storage

-

#### Disposal

Dispose of contents/container in accordance with local regulation (P501)

### Hazardous substances

disodium; boron; oxygen(2-); tetrahydrate

formaldehyde ...%

2-methylisothiazol-3(2H)-one

### Additional labelling

Restricted to professional users.

UFI: MKYN-5FCC-Y5CP-3410

## 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 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 |
|-------------------------------------------|---------------------------------------------------------------------|-------|--------------------------------------------------------------------------------|------|
| Ammonium nitrate                          | CAS No.: 6484-52-2<br>EC No.: 229-347-8<br>UK-REACH:<br>Index No.:  | 5-10% | Ox. Sol. 3, H272<br>Eye Irrit. 2, H319                                         | [3]  |
| disodium; boron; oxygen(2-); tetrahydrate | CAS No.: 12280-03-4<br>EC No.: 602-894-3<br>UK-REACH:<br>Index No.: | <1%   | Repr. 1B, H360                                                                 |      |
| formaldehyde ...%                         | CAS No.: 50-00-0<br>EC No.: 200-001-8<br>UK-REACH:                  | <0.1% | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314 (SCL: 25.00 %) | [1]  |

|                              |                                                                                 |        |                                                                                                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Index No.: 605-001-00-5      |                                                                                 |        | Skin Irrit. 2, H315 (SCL: 5.00 %)<br>Skin Sens. 1, H317 (SCL: 0.20 %)<br>Eye Irrit. 2, H319 (SCL: 5.00 %)<br>Acute Tox. 3, H331<br>STOT SE 3, H335 (SCL: 5.00 %)<br>Muta. 2, H341<br>Carc. 1B, H350                         |
| 2-methylisothiazol-3(2H)-one | CAS No.: 2682-20-4<br>EC No.: 220-239-6<br>UK-REACH:<br>Index No.: 613-326-00-9 | <0.01% | EUH071<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Skin Sens. 1A, H317 (SCL: 0.0015 %)<br>Eye Dam. 1, H318<br>Acute Tox. 2, H330<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

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

#### Other information

[1] European occupational exposure limit.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

### 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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.  
 If skin irritation occurs: Get medical advice/attention.

##### 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

Headache, Methaemoglobinaemia (Ammonium nitrate)

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

### Information to medics

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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:

Nitrogen oxides (NO<sub>x</sub>)

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

Ammonia (NH<sub>3</sub>)

### 5.3. ▼ Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact

The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 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

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

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

Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).

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.

### 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

Disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']manganate(2-)

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 0,2 (inhalable fraction as Mn) / 0,05 (respirable fraction as Mn)

formaldehyde ...%

Long term exposure limit (8 hours) (ppm): 2

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2.5

Short term exposure limit (15 minutes) (ppm): 2

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2.5

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
 EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

2-methylisothiazol-3(2H)-one

| Duration:                                          | Route of exposure: | DNEL:                |
|----------------------------------------------------|--------------------|----------------------|
| Long term – Local effects - General population     | Inhalation         | 21 µg/m <sup>3</sup> |
| Long term – Local effects - Workers                | Inhalation         | 21 µg/m <sup>3</sup> |
| Short term – Local effects - General population    | Inhalation         | 43 µg/m <sup>3</sup> |
| Short term – Local effects - Workers               | Inhalation         | 43 µg/m <sup>3</sup> |
| Long term – Systemic effects - General population  | Oral               | 27 µg/kg bw/day      |
| Short term – Systemic effects - General population | Oral               | 53 µg/kg bw/day      |

Ammonium nitrate

| Duration:                                         | Route of exposure: | DNEL:                 |
|---------------------------------------------------|--------------------|-----------------------|
| Long term – Systemic effects - General population | Dermal             | 2.56 mg/kg bw/day     |
| Long term – Systemic effects - Workers            | Dermal             | 5.12 mg/kg bw/day     |
| Long term – Systemic effects - General population | Inhalation         | 8.9 mg/m <sup>3</sup> |
| Long term – Systemic effects - Workers            | Inhalation         | 36 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population | Oral               | 2.56 mg/kg bw/day     |

Disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']manganate(2-)

| Duration:                                         | Route of exposure: | DNEL:                |
|---------------------------------------------------|--------------------|----------------------|
| Long term – Systemic effects - General population | Dermal             | 12500 mg/kg bw/day   |
| Long term – Systemic effects - Workers            | Dermal             | 25000 mg/kg bw/day   |
| Long term – Systemic effects - General population | Inhalation         | 3 mg/m <sup>3</sup>  |
| Long term – Systemic effects - Workers            | Inhalation         | 10 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population | Oral               | 2.5 mg/kg bw/day     |

formaldehyde ...%

| Duration:                                         | Route of exposure: | DNEL:                 |
|---------------------------------------------------|--------------------|-----------------------|
| Long term – Local effects - General population    | Dermal             | 12 µg/cm <sup>2</sup> |
| Long term – Local effects - Workers               | Dermal             | 37 µg/cm <sup>2</sup> |
| Long term – Systemic effects - General population | Dermal             | 102 mg/kg bw/day      |
| Long term – Systemic effects - Workers            | Dermal             | 240 mg/kg bw/day      |
| Long term – Local effects - General population    | Inhalation         | 100 µg/m <sup>3</sup> |
| Long term – Local effects - Workers               | Inhalation         | 375 µg/m <sup>3</sup> |
| Long term – Systemic effects - General population | Inhalation         | 3.2 mg/m <sup>3</sup> |

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

|                                                   |            |                       |
|---------------------------------------------------|------------|-----------------------|
| Long term – Systemic effects - Workers            | Inhalation | 9 mg/m <sup>3</sup>   |
| Short term – Local effects - Workers              | Inhalation | 750 µg/m <sup>3</sup> |
| Long term – Systemic effects - General population | Oral       | 4.1 mg/kg bw/day      |

#### PNEC

##### 2-methylisothiazol-3(2H)-one

| Route of exposure:                  | Duration of Exposure: | PNEC:      |
|-------------------------------------|-----------------------|------------|
| Freshwater                          |                       | 3.39 µg/L  |
| Intermittent release (freshwater)   |                       | 3.39 µg/L  |
| Intermittent release (marine water) |                       | 3.39 µg/L  |
| Marine water                        |                       | 3.39 µg/L  |
| Sewage treatment plant              |                       | 230 µg/L   |
| Soil                                |                       | 47.1 µg/kg |

##### Ammonium nitrate

| Route of exposure:     | Duration of Exposure: | PNEC:   |
|------------------------|-----------------------|---------|
| Sewage treatment plant |                       | 18 mg/L |

##### Disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']manganate(2-)

| Route of exposure:                  | Duration of Exposure: | PNEC:     |
|-------------------------------------|-----------------------|-----------|
| Freshwater                          |                       | 2.67 mg/L |
| Intermittent release (freshwater)   |                       | 1.07 mg/L |
| Intermittent release (marine water) |                       | 107 µg/L  |
| Marine water                        |                       | 270 µg/L  |
| Sewage treatment plant              |                       | 64 mg/L   |
| Soil                                |                       | 208 µg/kg |

##### formaldehyde ...%

| Route of exposure:                | Duration of Exposure: | PNEC:     |
|-----------------------------------|-----------------------|-----------|
| Freshwater                        |                       | 440 µg/L  |
| Freshwater sediment               |                       | 2.3 mg/kg |
| Intermittent release (freshwater) |                       | 4.44 mg/L |
| Marine water                      |                       | 440 µg/L  |
| Marine water sediment             |                       | 2.3 mg/kg |
| Sewage treatment plant            |                       | 190 µg/L  |
| Soil                              |                       | 200 µg/kg |

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

##### General recommendations

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

##### Exposure scenarios

There are no exposure scenarios implemented for this product.

##### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

##### Appropriate technical measures

Do not recirculate outlet air that contain the substances.

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

##### Hygiene measures

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.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment

##### Generally

Use only UKCA marked protective equipment.

##### Respiratory Equipment

| Type                                                                       | Class | Colour | Standards |
|----------------------------------------------------------------------------|-------|--------|-----------|
| Respiratory protection is not needed in the event of adequate ventilation. |       |        |           |

##### Skin protection

| Recommended                             | Type/Category | Standards |
|-----------------------------------------|---------------|-----------|
| Dedicated work clothing should be worn. | -             | -         |



##### ▼ Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards                        |
|----------|----------------------|--------------------------|----------------------------------|
| Nitrile  | 2,0                  | > 480                    | EN374-2, EN16523-1, EN388, EN407 |



##### Eye protection

| Type                              | Standards |
|-----------------------------------|-----------|
| Safety glasses with side shields. | EN166     |



## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Brown

#### ▼ Odour / Odour threshold

No data available.

#### pH

8-9

#### Density (g/cm<sup>3</sup>)

-

#### Relative density

1.2-1.24

#### ▼ Kinematic viscosity

No data available.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

#### ▼ Melting point/Freezing point (°C)

No data available.

#### Softening point/range (°C)

Does not apply to liquids.

- ▼ Boiling point (°C)  
No data available.
- ▼ Vapour pressure  
No data available.
- ▼ Relative vapour density  
No data available.
- ▼ Decomposition temperature (°C)  
No data available.

#### Data on fire and explosion hazards

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

#### Solubility

- ▼ Solubility in water  
No data available.
- ▼ n-octanol/water coefficient (LogKow)  
No data available.
- ▼ Solubility in fat (g/L)  
No data available.

#### 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

None known.

#### 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

May cause an allergic skin reaction.

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

May damage fertility or the unborn child.

#### 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

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

#### ▼ Endocrine disrupting properties

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

#### Other information

formaldehyde ...% has been classified by IARC as a group 1 carcinogen.

## 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

### Waste treatment methods

Product is not covered by regulations on dangerous waste.

Dispose of contents/container to an approved waste disposal plant.

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<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| 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

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### Demands for specific education

No specific requirements.

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

Ammonium nitrate

formaldehyde ...%

##### Regulation on explosives precursors

Ammonium nitrate (Annex I)

##### UK-REACH, Annex XVII

Ammonium nitrate is subject to restrictions, UK-REACH annex XVII (entry 58).

##### Additional information

Not applicable.

##### Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Council Regulation (EC) No 2019/1148 on explosives precursors 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

H071, Corrosive to the respiratory tract.

H272, May intensify fire; oxidiser.

H301, Toxic if swallowed.

H311, Toxic in contact with skin.

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.  
H330, Fatal if inhaled.  
H331, Toxic if inhaled.  
H335, May cause respiratory irritation.  
H341, Suspected of causing genetic defects.  
H350, May cause cancer.  
H360, May damage fertility or the unborn child.  
H400, Very toxic to aquatic life.  
H410, Very toxic to aquatic life with long lasting effects.

#### 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  
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

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### The safety data sheet is validated by

Wendy Johnson

#### 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. Information in this safety

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