

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

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

#### 1.1 Product identifier

**Product name** MIX-S

#### Other means of identification

**Product code** 50001678

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

Use of the Sub- : Crop nutrition  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use For professional users only.

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

##### Supplier Address

FMC Agro Limited  
Rectors Lane, Pentre  
Flintshire  
CH5 2DH  
United Kingdom

Telephone: + 44 1244 537370  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency:  
England and Wales: 111  
Scotland: 84 54 24 2424

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Serious eye damage/eye irritation, Cate- H319: Causes serious eye irritation.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

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### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version 1.2      Revision Date: 24.07.2025      SDS Number: 50001678      Date of last issue: 20.07.2018  
Date of first issue: 20.07.2018

potassium chloride	7447-40-7 231-211-8	Aquatic Chronic 3; H412	$\geq 10 - \leq 30$
Magnesium sulfate trihydrate	15320-30-6	STOT SE 1; H370	$\geq 5 - \leq 10$
EDTA manganese disodium salt	15375-84-5	Acute Tox. 4; H302 Aquatic Chronic 3; H412	$\geq 1 - \leq 5$
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-)	14025-15-1 237-864-5	Acute Tox. 4; H302 Eye Irrit. 2; H319	$\geq 1 - < 5$
Boron sodium oxide (B5NaO8), pentahydrate	12046-75-2	Repr. 2; H361fd	$> 0 - < 1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
Avoid inhalation, ingestion and contact with skin and eyes.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.  
Wash off immediately with plenty of water for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

---

If symptoms persist, call a physician.

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

Symptoms	: Irritation of eyes
Risks	: Causes serious eye irritation.

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

Treatment	: Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , water spray or regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet Do not spread spilled material with high-pressure water streams.

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

Hazardous combustion products	: No hazardous combustion products are known
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### 5.3 Advice for firefighters

Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

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

Personal precautions	: Avoid dust formation. Avoid breathing dust. Never return spills in original containers for re-use. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene. For disposal considerations see section 13.
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# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

---

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the ap-  
plication area.  
Dispose of rinse water in accordance with local and national  
regulations.

Advice on protection against : Provide appropriate exhaust ventilation at places where dust  
fire and explosion is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage : Keep container tightly closed in a dry and well-ventilated  
areas and containers place. Electrical installations / working materials must comply  
with the technological safety standards.

Further information on stor- : Keep in a dry place.  
age stability No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Crop nutrition

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

dust of any kind 10 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (Inhalable)  
Basis: GB EH40

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version 1.2      Revision Date: 24.07.2025      SDS Number: 50001678      Date of last issue: 20.07.2018  
Date of first issue: 20.07.2018

4 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (Respirable fraction)  
Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON'] cuprate(2-)	14025-15-1	TWA (Dusts and mists)	1 mg/m <sup>3</sup> (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m <sup>3</sup> (Copper)	GB EH40

### Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
potassium chloride	Workers	Inhalation	Long-term systemic effects	1064 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	303 mg/kg
	Workers	Dermal	Acute systemic effects	910 mg/kg
	Workers	Inhalation	Acute systemic effects	5320 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	273 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	1365 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	182 mg/kg
	Consumers	Dermal	Acute systemic effects	910 mg/kg
	Consumers	Oral	Long-term systemic effects	91 mg/kg
	Consumers	Oral	Acute systemic effects	455 mg/kg

### Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
potassium chloride	Fresh water	0.1 mg/l
	Intermittent use/release	1 mg/l
	Marine water	0.1 mg/l
	Sewage treatment plant	10 mg/l

## 8.2 Exposure controls

### Personal protective equipment

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

- |                             |   |   |
|-----------------------------|---|---|
| Eye/face protection         | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles   |
| Hand protection<br>Material | : | Wear chemical resistant gloves, such as barrier laminate,<br>butyl rubber or nitrile rubber.  |
| Remarks                     | : | The suitability for a specific workplace should be discussed<br>with the producers of the protective gloves.  |
| Skin and body protection    | : | Dust impervious protective suit<br>Choose body protection according to the amount and concen-<br>tration of the dangerous substance at the work place.  |
| Respiratory protection      | : | Use respiratory protection unless adequate local exhaust ven-<br>tilation is provided or exposure assessment demonstrates that<br>exposures are within recommended exposure guidelines.<br>Equipment should conform to EN 143   |
| Filter type                 | : | Particulates type (P)   |
| Protective measures         | : | Plan first aid action before beginning work with this product.<br>Always have on hand a first-aid kit, together with proper in-<br>structions.<br>Ensure that eye flushing systems and safety showers are<br>located close to the working place.<br>Wear suitable protective equipment. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |   |   |  |
|---|---|--|
| Physical state                                      | : | solid  |
| Form  | : | powder   |
| Colour  | : | blue   |
| Odour   | : | Barely perceptible                             |
| Odour Threshold                                     | : | No data available                              |
| pH  | : | 6.16   |
|   |   | Concentration: 100 %<br>(1% solution in water) |
| Melting point/freezing point                        | : | No data available                              |
| Initial boiling point and boiling<br>range          | : | No data available                              |
| Flash point   | : | No data available                              |
| Upper explosion limit / Upper<br>flammability limit | : | No data available                              |
| Lower explosion limit / Lower<br>flammability limit | : | No data available                              |
| Vapour pressure                                     | : | No data available                              |
| Relative vapour density                             | : | No data available                              |

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

---

Relative density	:	
Density	:	No data available
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	
	:	No data available
Oxidizing properties	:	No data available

### 9.2 Other information

Particle size	:	No data available
Particle Size Distribution	:	No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid	:	Heat Avoid dust formation.
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### 10.5 Incompatible materials

Materials to avoid	:	Avoid strong acids, bases, and oxidizers
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### 10.6 Hazardous decomposition products

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



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

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

##### Product:

Acute oral toxicity : Remarks: Not classified  
Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : Remarks: Not classified

##### Components:

##### potassium chloride:

Acute oral toxicity : LD50 (Rat, female): 3,020 mg/kg

##### disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

Acute oral toxicity : LD50 (Rat): 890 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

##### Skin corrosion/irritation

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

##### Product:

Remarks : No data available

##### Components:

##### potassium chloride:

Method : OECD Test Guideline 439  
Result : No skin irritation

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Product:

Assessment : Irritating to eyes.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

---

### Components:

#### **potassium chloride:**

Result : No eye irritation

#### **disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):**

Assessment : Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

### Product:

Remarks : Not classified

### **Germ cell mutagenicity**

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

### Components:

#### **potassium chloride:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

### **Carcinogenicity**

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

### Product:

Remarks : Not classified

### Components:

#### **potassium chloride:**

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

### **Reproductive toxicity**

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

### Product:

Effects on fertility : Remarks: Not classified

Effects on foetal develop- : Remarks: Not classified

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version 1.2	Revision Date: 24.07.2025	SDS Number: 50001678	Date of last issue: 20.07.2018 Date of first issue: 20.07.2018
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### STOT - single exposure

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

#### Product:

Remarks : Not classified

### STOT - repeated exposure

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

### Repeated dose toxicity

#### Components:

##### potassium chloride:

Species	: Rat, male
NOAEL	: 1,820 mg/kg
LOAEL	: 110 mg/kg
Application Route	: Oral
Exposure time	: 2 years

### Aspiration toxicity

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

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### potassium chloride:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 880 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 660 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC10 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h  EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC50 (Anabaena flos-aquae (cyanobacterium)): 100 mg/l

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

Exposure time: 72 h

EC50 (Natural microorganism): 1,000 mg/l  
Exposure time: 3 h

### **disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):**

Toxicity to fish : LC50 (Fish): 555 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC10 (algae): 42.8 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC: 25.7 mg/l  
Exposure time: 35 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d  
Species: Crustaceans

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic effects cannot be excluded

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

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

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects**

#### **Product:**

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Additional ecological information : No data available

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 UN number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.4 Packing group

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version 1.2	Revision Date: 24.07.2025	SDS Number: 50001678	Date of last issue: 20.07.2018 Date of first issue: 20.07.2018
----------------	------------------------------	-------------------------	---

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**IMDG** : Not regulated as a dangerous good

**IATA (Cargo)** : Not regulated as a dangerous good

**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

#### The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : Not applicable

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## MIX-S

Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H302	: Harmful if swallowed.
H319	: Causes serious eye irritation.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	: Causes damage to organs.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
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Version	Revision Date:	SDS Number:	Date of last issue: 20.07.2018
1.2	24.07.2025	50001678	Date of first issue: 20.07.2018

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tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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