

# SAFETY DATA SHEET

## MIX-S

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS # : 10250-1-A  
Revision date: 2018-07-20  
Format: EU  
Version 1.01

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

Product Code(s) 10250-1-A

Product Name MIX-S

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

Recommended Use: A soluble fertilizer for use in agriculture and horticulture

Restrictions on use Use as recommended by the label.

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

Manufacturer FMC Agro Limited  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom  
Tel: + 44 (0) 1244 537370  
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point Tel: +44(0)1244 537370  
Email: fmc.agro.uk@fmc.com

#### 1.4. Emergency telephone number

Emergency telephone Tel: +44(0)1244 537370 (Office hours only)

### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 (H315)
Serious eye damage/eye irritation	Category 2 (H319)

#### 2.2. Label elements

Hazard pictograms



**Signal Word**  
WARNING

**Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements**

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

P362 - Take off contaminated clothing and wash before reuse

**2.3. Other hazards**

This product is not identified as a PBT/vPvB substance.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

The product is a mixture, not a substance.

**3.2 Mixture containing the following hazardous ingredients:**

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
POTASSIUM NITRATE	231-818-8	7757-79-1	10-30	Ox. Sol. 3 (H272)	No data available
AMMONIUM NITRATE	299-347-8	6484-52-2	1-10	Ox. Sol. 3 (H272) Eye Irrit. 2 (H319)	01-2119490981-27-XXXX
POTASSIUM HYDROGENSULPHATE	231-594-1	7646-93-7	1-10	Skin Corr. 1B (H314) STOT SE 3 (H335)	No data available
COPPER DISODIUM EDTA	237-864-5	14025-15-1	1-10	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	No data available
BORIC ACID, SODIUM SALT, PENTAHYDRATE	234-522-7	12046-75-2	<1	Repr. 2: H361d	01-2119970731-35-XXXX

**Additional Information**

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

## Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures****Eye Contact**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if irritation persists.

**Skin Contact**

Immediately remove all stained or splashed clothing that is not adhering to the skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor if necessary.

**Inhalation**

Remove person from exposure ensuring one's own safety while doing so. Consult a doctor if necessary.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

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

**Most important symptoms and effects, both acute and delayed**

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

**4.3. Indication of any immediate medical attention and special treatment needed****Indication of immediate medical attention and special treatment needed, if necessary**

Eye bathing equipment should be available on the premises.

## Section 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

**Unsuitable extinguishing media**

No information available

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

Toxic fumes may be released in fire situations.

**Hazardous Combustion Products**

Sulphur oxides, Nitrogen oxides (NOx).

**5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Keep people away from and upwind of spill/leak. Avoid dust formation.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not release to the environment.

**6.3. Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Equipment should contain high efficiency filter. Transfer to a closable, labeled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling****Handling**

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation in confined areas.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep container tightly closed. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs. Avoid contact with water or humidity.

**7.3. Specific end use(s)****Specific Use(s)**

No data available.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Chemical name	European Union	The United Kingdom	France	Spain	Germany
POTASSIUM NITRATE 7757-79-1	5 mg/m <sup>3</sup> (8hr TWA) (respirable dust)	-	-	-	-

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/Face Protection** Tightly fitting safety goggles. Provide emergency on-site eyewash.

**Hand Protection** Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of materials such as nitrile or neoprene.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** The product is not likely to present an airborne exposure concern during normal handling, but in the event of a discharge of the material which produces a heavy dust, workers should put on officially approved face mask or respiratory protection.

**Environmental exposure controls** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical State	Dry powder
Appearance	No information available
Odour	Barely perceptible
Colour	Blue
Odour threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit	No information available
Vapour pressure	No information available
Vapour density	No information available
Specific gravity	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising properties	No information available

**9.2. Other information**

Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Density	No information available
Bulk density	No information available
K <sub>st</sub>	No information available

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

None under normal use conditions

**10.2. Chemical stability**

Stable under recommended storage conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

**10.3. Possibility of hazardous reactions****Hazardous polymerisation**

Hazardous polymerization does not occur.

**Hazardous reactions**

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Strong oxidising agents, Strong acids.

**10.6. Hazardous decomposition products**

May emit toxic fumes under fire conditions.

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects****Acute toxicity****Product Information**

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
POTASSIUM NITRATE	3750 mg/kg ( Rat ) 1901 mg/kg (Rabbit)		
AMMONIUM NITRATE	>5000 mg/kg ( Rat )		> 88.8 mg/L ( Rat ) 4 h
POTASSIUM HYDROGENSULPHATE	= 2340 mg/kg ( Rat )		
COPPER DISODIUM EDTA	890 mg/kg (rat)		>5.32 mg/kg (rat)
BORIC ACID, SODIUM SALT, PENTAHYDRATE	2330 mg/kg ( Rat )	>2000 mg/kg (Rabbit)	>2.03 mg/L (5hr) (Rat)

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitisation</b>	No information available.
<b>Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.

<b>Symptoms</b>	<p>Skin contact: There may be irritation and redness at the site of contact.</p> <p>Eye contact: There may be irritation and redness. The eyes may water profusely.</p> <p>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</p> <p>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</p> <p>Delayed / immediate effects: Immediate effects can be expected after short-term exposure.</p>
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
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			<b>aquatic invertebrates</b>
POTASSIUM NITRATE	-	96hr LC50: 180 mg/L	48hr EC50: 490 mg/L
AMMONIUM NITRATE	-	48 h LC50: 65 - 85 mg/L (Cyprinus carpio) semi-static	-
BORIC ACID, SODIUM SALT, PENTAHYDRATE	(Agmenellum quadruplicatum) 10d NOEC >=100 mg.B/l (Pseudokirchneriella subcapitata) 72H EbC50 40 mg.B/l	(Pimephales promelas) 32d NOEC 11.2 mg.B/l (Pimephales promelas) 96H LC50 79.7 mg.B/l	(Daphnia magna) 21d LOEC 56 mg.B/l (Daphnia magna) 48H LC50 133 mg.B/l

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

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

No information available.

**Mobility**

Soluble in water.

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

This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

Negligible

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from residues / unused products**

Transfer to a suitable container and arrange for collection by specialised disposal company. Alternatively, the product can be incinerated, in accordance with local regulations. The diluted product and washings should be sent to a water treatment facility. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

**Contaminated Packaging**

Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of rinse water in accordance with local and national guidelines.

**EWC Waste Disposal No**

02 01 08

**OTHER INFORMATION**

NOTE : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

## Section 14: TRANSPORT INFORMATION

**NOTE**

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

**IMDG/IMO****14.1 UN/ID no**

Not regulated

**14.2 Proper Shipping Name**

Not regulated

14.3 Hazard class Not regulated  
 14.4 Packing Group Not regulated  
 14.5 Marine Pollutant Not applicable  
 14.6 Special Provisions None  
 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code The product is not transported in bulk tankers.

**RID**

14.1 UN/ID no Not regulated  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard class Not regulated  
 14.4 Packing Group Not regulated  
 14.5 Environmental Hazard Not applicable  
 14.6 Special Provisions None

**ADR/RID**

14.1 UN/ID no Not regulated  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard class Not regulated  
 14.4 Packing Group Not regulated  
 14.5 Environmental Hazard Not applicable  
 14.6 Special Provisions None

**ICAO/IATA**

14.1 UN/ID no Not regulated  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard class Not regulated  
 14.4 Packing Group Not regulated  
 14.5 Environmental Hazard Not applicable  
 14.6 Special Provisions None

## Section 15: REGULATORY INFORMATION

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

**European Union****Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)  
 This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
POTASSIUM NITRATE 7757-79-1	X	X	X	X	X	X	X	X
AMMONIUM NITRATE 6484-52-2	X	X	X	X	X	X	X	X
POTASSIUM								



HYDROGENSULPHATE 7646-93-7	X	X	X	X	X	X	X	X
COPPER DISODIUM EDTA 14025-15-1	X	X	X	X	X	X	X	X

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of R-phrases referred to under sections 2 and 3

Not applicable

#### Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidiser  
 H302 - Harmful if swallowed  
 H314 - Causes severe skin burns and eye damage  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 H361d - Suspected of damaging the unborn child

#### Legend

<b>ADR:</b> <b>CAS:</b> <b>Ceiling:</b> <b>DNEL:</b> <b>EINECS:</b> <b>GHS:</b> <b>IATA:</b> <b>ICAO:</b> <b>IMDG:</b> <b>LC50:</b> <b>LD50:</b> <b>PBT:</b> <b>RID:</b> <b>STEL:</b> <b>SVHC</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road CAS (Chemical Abstracts Service) Maximum limit value: Derived No Effect Level (DNEL) EINECS (European Inventory of Existing Chemical Substances) Globally Harmonised System (GHS) International Air Transport Association (IATA) International Civil Aviation Organization International Maritime Dangerous Goods (IMDG) LC50 (lethal concentration) LD50 (lethal dose) Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Regulations Concerning the International Transport of Dangerous Goods by Rail Short term exposure limit SVHC: Substances of Very High Concern for Authorisation:
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<b>TWA:</b>	time weighted average
<b>vPvB:</b>	very Persistent and very Bioaccumulative

**Revision date:** 2018-07-20

**Reason for revision:** Format Change.

#### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

#### Prepared By

FMC Corporation

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