

# SAFETY DATA SHEET

## Mais Extra

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



SDS # : NP-0149-7-A  
Revision date: 2018-12-19  
Format: EU  
Version 1

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

Product Code(s) NP-0149-7-A

Product Name Mais Extra

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

Recommended Use: A soluble micronutrient for use in agriculture

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 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 1 Sub-category B (H314)
Chronic aquatic toxicity	Category 2 (H411)

#### 2.2. Label elements

Hazard pictograms



**Signal Word**

Danger

**Hazard Statements**

H314 - Causes severe skin burns and eye damage

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements**

P273 - Avoid release to the environment

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

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

P501: Dispose of contents/container as hazardous waste.

**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 Mixtures**

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Orthophosphoric acid	Present	7664-38-2	30-50	Skin Corr. 1B (H314)	01-2119485924-24-XXXX
ZINC PHOSPHATE	Present	7779-90-0	10-30	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119485044-40-XXXX

## Section 4: FIRST AID MEASURES

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

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Transfer to hospital for specialist examination.

**Skin Contact**

Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash off immediately with plenty of water for at least 15 minutes. Transfer to hospital if there are burns or symptoms of poisoning.

**Inhalation**

Remove person from exposure ensuring one's own safety while doing so. Call a doctor or poison control centre immediately.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Call a doctor or poison control centre immediately.

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

Skin contact: Severe burns may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be difficulty swallowing.

Inhalation: There may be shortness of breath with a burning sensation in the throat.  
Exposure may cause coughing or wheezing.

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**

Corrosive. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

#### **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**

In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Stop leak if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection see section 8. Keep people away from and upwind of spill/leak.

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 discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

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

##### **Methods for Containment**

Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

##### **Methods for cleaning up**

Surface water drains within close vicinity of the spill should be covered. Absorb into dry earth or sand. Transfer to a closable, labelled 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

Avoid contact by using personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

##### Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs. Store rooms or warehouses should be made of non-combustible materials with impermeable floors.

##### Packageing material

Must only be kept in original packaging.

#### 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
Orthophosphoric acid 7664-38-2	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	STEL 2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup>	TWA 0.2 ppm TWA 1 mg/m <sup>3</sup> STEL 0.5 ppm STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	-
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Orthophosphoric acid 7664-38-2	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 3 mg/m <sup>3</sup>	STEL 2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Orthophosphoric acid 7664-38-2	STEL 2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup>	SS-C** TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>	TWA 1 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup>

##### 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. The floor of the storage room must be impermeable to prevent the escape of liquids.

##### Personal protective equipment

##### Eye/Face Protection

Tightly fitting safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

##### Hand Protection

Gloves (acid resistant).

##### Skin and Body Protection

Acid-resistant protective clothing.

##### Respiratory Protection

Not required under normal use.

##### 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	Liquid
Appearance	Liquid
Odour	Barely perceptible
Colour	Colourless
Odour threshold	No information available
pH	0.25 - 1.25
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)	
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	1.61 - 1.63
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	Non-oxidizing (by EC criteria)

### 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

Stable under recommended storage 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 bases.

**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**

Product does not present an acute toxicity hazard based on known or supplied information.

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Orthophosphoric acid	> 2000 mg/kg ( Rat )	2740 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h
ZINC PHOSPHATE	> 5000 mg/kg ( Rat )		

<b>Skin corrosion/irritation</b>	See classification in Section 2.
<b>Serious eye damage/eye irritation</b>	See classification in Section 2.
<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: Severe burns may occur. Progressive ulceration will occur if treatment is not immediate.</p> <p>Eye contact: Corneal burns may occur. May cause permanent damage.</p> <p>Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be difficulty swallowing.</p> <p>Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.</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**

<b>Ecotoxicity</b>	RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> ):	96H LC50 = 0.920 (calculated) mg/L
	DAPHNIDS ( <i>Daphnia magna</i> ):	48H EC50 = 20.7 (calculated) mg/L
	ALGAE ( <i>Pseudokirchneriella subcapitata</i> ):	72H IC50 = 1.54 (calculated) mg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Orthophosphoric acid	-	96 h LC50: 3 - 3.5 mg/L (Gambusia affinis)	12 h EC50: = 4.6 mg/L (Daphnia magna)
ZINC PHOSPHATE	Raphidocelis subcapitata: 72H IC50 = 0.268 mg/L (ZnO data)	Oncorhynchus mykiss: 96H LC50 = 0.160 mg/L (ZnCl2 data)	Daphnia magna: 48H EC50 = 2.13 mg/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**

Readily absorbed to soil.

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

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

**12.6. Other adverse effects**

Toxic to aquatic organisms

## 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. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Containers must be disposed of in accordance with local regulations. Refer to the product label for container disposal instructions.

**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

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

UN1760

**14.2 Proper Shipping Name**

CORROSIVE LIQUID, N.O.S. (ORTHOPHOSPHORIC ACID, ZINC PHOSPHATE)

**14.3 Hazard class**

8

**14.4 Packing Group**

III

**14.5 Marine Pollutant**

Yes

**Environmental Hazard**

Yes

**14.6 Special Provisions**

No special precautions.

Tunnel code: E

Transport category: 3

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** This product is not transported in bulk containers.

**RID**

**14.1 UN/ID no** UN1760  
**14.2 Proper Shipping Name** CORROSIVE LIQUID, N.O.S. (ORTHOPHOSPHORIC ACID, ZINC PHOSPHATE)  
**14.3 Hazard class** 8  
**14.4 Packing Group** III  
**14.5 Environmental Hazard** Yes  
**14.6 Special Provisions** No special precautions.  
Tunnel code: E  
Transport category: 3

**ADR/RID**

**14.1 UN/ID no** UN1760  
**14.2 Proper Shipping Name** CORROSIVE LIQUID, N.O.S. (ORTHOPHOSPHORIC ACID, ZINC PHOSPHATE)  
**14.3 Hazard class** 8  
**14.4 Packing Group** III  
**14.5 Environmental Hazard** Yes  
**14.6 Special Provisions** No special precautions.  
Tunnel code: E  
Transport category: 3

**ICAO/IATA**

**14.1 UN/ID no** UN1760  
**14.2 Proper Shipping Name** CORROSIVE LIQUID, N.O.S. (ORTHOPHOSPHORIC ACID, ZINC PHOSPHATE)  
**14.3 Hazard class** 8  
**14.4 Packing Group** III  
**14.5 Environmental Hazard** Yes  
**14.6 Special Provisions** No special precautions.  
Tunnel code: E  
Transport category: 3

## 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/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Orthophosphoric acid	X	X	X	X	X	X	X	X



7664-38-2								
ZINC PHOSPHATE 7779-90-0	X	X	X	X	X	X	X	X

### 15.2. Chemical safety assessment

A chemical safety assessment is not required to be included for this product.

## Section 16: OTHER INFORMATION

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

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

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

#### Legend

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

Revision date: 2018-12-19

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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**End of Safety Data Sheet**