

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: EXTRA OLIGOMIX

Product code: 10248

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

Use of substance / mixture: A soluble fertiliser for use in agriculture and horticulture.

1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre

Flintshire

CH5 2DH

United Kingdom

Tel: +44(0)1244 537370

Fax: +44(0)1244 532097

Email: flintshire.enquiry@fmc.com

1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: * Xi: R38; Xi: R41; Xn: R48/20/22; N: R51/53

Classification under CLP: * Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT RE 2: H373; Aquatic Chronic 2: H411

Most important adverse effects: Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements:

Hazard statements: * H315: Causes skin irritation.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Signal words: * Danger

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Hazard pictograms: * GHS05: Corrosion
GHS08: Health hazard
GHS09: Environmental



Precautionary statements: * P260: Do not breathe dust.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of water/.
P305+351+338: 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 to hazardous or special waste collection point.

Label elements under CHIP:

Hazard symbols: Harmful.
Dangerous for the environment.



Risk phrases: * R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S22: Do not breathe dust.
S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35: This material and its container must be disposed of in a safe way.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous ingredients:

AMMONIUM IRON(III) CITRATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
214-686-6	1185-57-5	Xi: R36/38	Skin Irrit. 2: H315; Eye Irrit. 2: H319	30-60%

MANGANESE SULPHATE MONOHYDRATE - REACH registered number(s): 01-2119456624-35-XXXX

232-089-9	10034-96-5	Xn: R48/20/22; N: R51/53	Eye Dam. 1: H318; STOT RE 2: H373; Aquatic Chronic 2: H411	10-30%
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ZINC (II) SULPHATE - REACH registered number(s): 01-2119474684-27-XXXX

231-793-3	7733-02-0	Xn: R22; Xi: R41; N: R50/53	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410	10-30%
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BORIC ACID, SODIUM SALT, PENTAHYDRATE - REACH registered number(s): 01-2119970731-35-XXXX

234-522-7	12007-92-0	T: R61	Repr. 2: H361d	1-10%
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DICOPPER CHLORIDE TRIHYDROXIDE - REACH registered number(s): 01-2119966120-46-XXXX

215-572-9	1332-65-6	Xn: R20/22; N: R50	Acute Tox. 4: H302+332; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor if irritation develops.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. 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 pain and redness. The eyes may water profusely. May cause permanent damage.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure. Possible systemic effects via inhalation or ingestion.

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

Immediate / special treatment: * Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. 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: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: * Do not discharge into drains or rivers. Accidental release into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: * Small spills should be immediately swept up or vacuumed using equipment with high efficiency final filter. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Protect from frost. Store above 5°C. Store in a cool, well ventilated area. Keep away from direct sunlight. Do not store near direct sources of heat. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs.

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7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

MANGANESE SULPHATE MONOHYDRATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.5 mg/m ³	-	-	-

DICOPPER CHLORIDE TRIHYDROXIDE

UK	1 mg/m ³	2 mg/m ³	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter. Particle filter class P2S (EN143).

Hand protection: Protective gloves.

Eye protection: * Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: 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

State: Solid

Colour: Brown

Odour: Barely perceptible odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

pH: 5.3 at 1g/L

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

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10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>2000 (calculated)	mg/kg

Hazardous ingredients:

MANGANESE SULPHATE MONOHYDRATE

INHALATION	RAT	4H LC50	>4.98	mg/l
ORAL	RAT	LD50	2400	mg/kg

ZINC (II) SULPHATE

DERMAL	RABBIT	LD50	>2000	mg/kg
ORAL	MUS	LD50	832	mg/kg
ORAL	RAT	LD50	1538	mg/kg

BORIC ACID, SODIUM SALT, PENTAHYDRATE

DERMAL	RBT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>2.04	mg/l
ORAL	RAT	LD50	>2500	mg/kg

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DICOPPER CHLORIDE TRIHYDROXIDE

DERMAL	RBT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	4.74	mg/l
ORAL	RAT	LD50	1398	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT DRM	Hazardous: calculated
Repeated dose toxicity	INH ING	Hazardous: calculated

Symptoms / routes of exposure

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

Eye contact: * There may be pain and redness. The eyes may water profusely. May cause permanent damage.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure. Possible systemic effects via inhalation or ingestion.

Section 12: Ecological information

12.1. Toxicity

* Ecotoxicity values:

Species	Test	Value	Units
ALGAE (<i>Pseudokirchneriella subcapitata</i>)	72H IC50	2.72 (calculated)	mg/l
DAPHNID (<i>Daphnia magna</i>)	48H LC50	2.83 (calculated)	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	2.03 (calculated)	mg/l

Hazardous ingredients:

MANGANESE SULPHATE MONOHYDRATE

ALGAE (<i>Desmodesmus subspicatus</i>)	72H ErC50	61.0	mg/l
DAPHNID (<i>Daphnia magna</i>)	48H LC50	30.1	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	9.75	mg/l

ZINC (II) SULPHATE

ALGAE (<i>Raphidocelis subcapitata</i>)	72H IC50	0.270	mg/l
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DAPHNID (<i>Daphnia magna</i>)	48H EC50	0.991	mg/l
FATHEAD MINNOW (<i>Pimephales promelas</i>)	8mo NOEC	0.078	mg/l
FATHEAD MINNOW (<i>Pimephales promelas</i>)	96H LC50	0.500	mg/l

DICOPPER CHLORIDE TRIHYDROXIDE

ALGAE (<i>Raphidocelis supcapitata</i>)	72H ErC50	0.238	mg/l
DAPHNID (<i>Daphnia magna</i>)	48H LC50	0.067	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	0.336	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(MANGANESE SULPHATE MONOHYDRATE; ZINC SULPHATE; COPPER OXYCHLORIDE)

14.3. Transport hazard class(es)

Transport class: 9

[cont...]

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14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: The product is not transported in bulk tankers.

Section 15: Regulatory information

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

Specific regulations: This product is a Seveso category/named substance in Annex I of Council Directive 96/82/EC.

15.2. Chemical Safety Assessment

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

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H302+332: Harmful if swallowed or if inhaled.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

R20/22: Harmful by inhalation and if swallowed.

R22: Harmful if swallowed.

[cont...]

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R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50: Very toxic to aquatic organisms.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61: May cause harm to the unborn child.

Legal 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.