



Anvil

Ortho 4.8

Material Safety Data Sheet

Issue: 01 - Jan 2021

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

1.1 Product Identifier Anvil Ortho 4.8

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

Relevant uses: Fertiliser. For professional use only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3. Details of the supplier of the safety data sheet

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.

Phone: +44 (0) 1189 710 995

Email: growth@indigrow.com

1.4. Emergency telephone number +44 (0) 7725 962 366

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards: The product does not require a hazard warning label in accordance with EC Directives.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Non-applicable.

3.2. Mixtures

Non-applicable.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.



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

Symptoms: No significant symptoms are expected due to the non-classification of the product.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, section 8.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Dust explosion class:

None

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.



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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits: None.

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374). Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust), cold-protection suit (f.e. according to EN 342)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	free flowing fine granules
Colour:	red to black
Odour:	of phenol
pH value:	7 - 9 (10 g/l)
melting point (decomposition):	> 200 °C
Ignition temperature:	> 530 °C (BAM)
Vapour pressure:	< 0.000001 hPa (25 °C)
Solubility in water:	approx. 100 g/l (20 °C)
Partitioning coefficient n-octanol/water (log Kow):	< -4
Self ignition:	not self-igniting
Thermal decomposition:	> 100 °C
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2. Other information

Bulk density: 550 - 900 kg/m³

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.



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10.3. Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

10.4. Conditions to avoid

Avoid extreme temperatures.

10.5. Incompatible materials

Substances to avoid: strong bases, oxidizing agents

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity:	Assessment of acute toxicity:	Virtually nontoxic after a single ingestion.
	Experimental/calculated data:	LD50 rat (oral): > 2,000 mg/kg
Irritation:	Assessment of irritating effects:	Not irritating to eyes and skin.
	Experimental/calculated data:	Skin corrosion/irritation rabbit: non-irritant
	Serious eye damage/irritation rabbit:	non-irritant
Respiratory/Skin sensitization:	Assessment of sensitization:	There is no evidence of a skin-sensitizing potential.
Germ cell mutagenicity:	Assessment of mutagenicity:	Most of the results from the available studies show no evidence of a mutagenic effect.
Other relevant toxicity information:	The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.	

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:	There is a high probability that the product is not acutely harmful to aquatic organisms.	
Sodium feredetate:	Toxicity to fish:	LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1, static). Limit concentration test only (LIMIT test). No mortality was observed. Nominal values (confirmed by concentration control analytics)
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, iron sodium salts:	Aquatic invertebrates:	EC50 (48 h) > 120 mg/l, Daphnia magna (OECD Guideline 202, part 1, static). Nominal concentration.
Sodium feredetate:	Microorganisms/Effect on activated sludge:	No observed effect concentration (3 h) 640 mg/l, (OECD Guideline 209, static). Nominal concentration.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H ₂ O):	Poorly biodegradable.	
Sodium feredetate:	Elimination information:	0 - 10 % BOD of the ThOD (30 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

12.3. Bioaccumulative potential

Bioaccumulation potential:	Accumulation in organisms is not to be expected.
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12.4. Mobility in soil

Assessment transport between environmental compartments:	
Adsorption in soil:	Adsorption to solid soil phase is not expected.



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12.5. Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Contaminated packaging: Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

This product is not regulated for transport (ADR/RID,IMDG,IATA).

SECTION 15: Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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