



**SAFETY DATA SHEET
OXY-RUSH
NEXT GENERATION**

SDS COMPLETED 21TH August 2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name Oxy-Rush-The Next Generation

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

Identified use(s) Soil Amendment

To be used only where there is a recognized need. Do not exceed the appropriate dose rates.

1.3. Details of the supplier of the safety data sheet

Agronomic Services Ltd
Unit 7a Brewery Close
Barker Business Park
Ripon
North Yorkshire
HG4 5NL

Tel: +44 (0)1765 658021

Email: info@agronomics.co.uk

1.4. Emergency telephone number

Emergency phone No. +44 (0) 1765 658021

2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No.1272/2008 (CLP/GHS)

Skin irritation (Category 2) (H315)

Eye irritation (Category 2) (H319)

2.2.2. Directives 67/548/EEC, 1999/45/EC

Irritating to skin (Category 2)

Serious eye irritation (Category 2)

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

CLP Hazard Pictograms:



Signal Word(s): Warning

Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation



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Precautionary Statements: P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection
P302+ P352 IF ON SKIN: Wash with plenty of soap and water
P305+ P352 IF IN EYES: Rinse cautiously with water for several minutes.
P351+ P338 Remove contact lenses, if present and easy to do. Continue rinsing
P337+ P313 If eye irritation persists: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse

Xi; Irritating

R-phrases R36 Irritating to eyes
R38 Irritating to skin

S-phrases S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of water
S37/39 Wear suitable gloves and eye protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

2.3. Other hazards

PBT Not tested for PBT vPvB Not tested for vPvB

3. Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration number	H statements
Ammonium Salt	35 – 40%	6484-52-2	229-347-8	01-2119490981-27-####	H272, H315, H319, H335
Humic acid, potassium salt	20-25%	68514-28-3	271-030-1	01-2119484861-29-####	
Calcium dihydrate	5 – 7%	13477-34-4	603-865-4	01-2119495093-35-####	H272, H302, H319
Potassium nitrate	0 – 2%	7757-79-1	231-818-8	01-2119488224-35-####	H272



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4. First aid measures

4.1. Description of first aid measures

4.1.1. First aid instructions.

If inhaled:	Move person into fresh air, rest and seek medical advice
If on skin (or hair):	Wash affected skin with plenty of water. Use an emollient to treat irritation
If in eyes:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical advice.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water. Consult a physician
Other first aid advice:	If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops

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

If inhaled: Inhalation of mist or vapours may cause irritation of mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath



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If on skin (or hair): Irritation or burns may occur to skin especially when already sore, dry or irritated. Where a large exposure is left unwashed skin absorption can occur, systematic effects from skin absorption can include dizziness, weakness, headache, nausea

If in eyes: Irritation of the eye tissues can occur together with tearing and considerable pain. If not washed possible burns, conjunctivitis or iritis can occur

If swallowed: Nausea and stomach pain may occur. Ingestion of large quantities can result in nitrite toxicity manifested as methaemoglobinaemia or metabolic acidosis

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

Medical treatment: Methaemoglobin concentrations are the best indicator of toxicity over plasma nitrate concentrations.

Where methaemoglobinaemia is suspected treat with oxygen and methylene blue at 1 – 2 mg/kg

Burns and irritation should be treated symptomatically

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: All extinguishing agents permitted

Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Ammonia, oxides of nitrogen, carbon, calcium and potassium

Other special hazards during fire: Where heated to dryness material may be explosive in contact with flammable or organic substances

5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus

Special protective equipment for firefighters: No special instructions

Other advice: Do not allow product to evaporate to dryness

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE: See section 8.2

Emergency responders PPE: See section 8.2

Controlling risks from accidental release: Avoid contact with reducing agents, strong acids and bases, metal powders, combustible materials

Emergency procedures: Evacuate personnel to safe areas.

6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to ground, water courses or drains can cause eutrophication

6.3. Methods and material for containment and cleaning up

Containing a spill: Mop up and contain with absorbent chemical spill kits

Cleaning up a spill: Mop material. Dilute to prevent damage to oxidiser sensitive surfaces. Recycle where possible

Other information on spill handling: Dilute with water. Capture with chemical absorbent kits.



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6.4. Reference to other sections

Recycle where possible

See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

7. Handling and storage

7.1. Precautions for safe handling

Safe handling recommendations: Avoid creation of aerosols. Provide good ventilation at location of use

Handling incompatibles: Do not use with reducing agents, strong acids or alkalis

Reducing environmental risk: Do not discharge into drains or water courses

Occupational hygiene advice: Wash hands after using this product and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

Safe storage: managing risks during storage:

Explosive atmospheres formed during storage: Not applicable

Corrosive conditions during storage: Not applicable

Flammability hazards during storage: Not applicable

Incompatible substances or mixtures: Incompatible with reducing agents

Evaporative conditions: Not applicable

Potential ignition sources, including electrical equipment: Not applicable

Safe storage: controlling effects of ambient conditions:

Weather conditions: Do not store outside uncontained

Ambient pressure: Not applicable

Temperature: No specific temperature requirements

Sunlight: Keep out of direct sunlight

Humidity: Not applicable

Vibration: Not applicable

Safe storage: maintaining the integrity of the product:

Stabilisers: Stabilisers are not used in this product

Antioxidants: Antioxidants are not used in this product

Safe storage: other advice:

Ventilation requirements for storage: No specific ventilation requirements

Specific designs for storage rooms or vessels: No specific design criteria on storage areas apart from normal regulatory requirements for substances of this type

Quantity limits under storage conditions: Not applicable

Suitable packaging for the substance: Compatible with plastic and protected metal containers

7.3. Specific end use(s)

Uses: Soil Amendment

8.: Exposure controls/personal protection

8.1. Control parameters



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8.1.1 Occupational exposure limits:

Data not available

8.1.2 Biological Limit Values:

Not applicable

8.1.3 Current recommended monitoring procedures:

Not applicable

8.1.4 Air contaminants formed when using the product as intended:

Not applicable

8.1.5. PNECs and DNELs

Data not available

8.2. Exposure controls

8.2.1. Appropriate engineering controls:

Good ventilation

8.2.2. Personal Protection Equipment

Eye protection: Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Face protection: Not required

Hand protection: Use nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Other skin protection: Do not wear open footwear

Respiratory protection: Not required

Thermal hazards: Not required

8.2.3. Environmental exposure controls

Do not release substance to drains or surface water

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Dark brown
Physical state:	Liquid
Colour:	Dark brown
Odour:	Slight earthy odor
Odour threshold:	Data not available
pH:	6.5 – 8.0
Melting point:	Data not available
Freezing point:	Below 3°C
Initial boiling point:	100°C
Boiling range:	Data not available
Flash point:	Data not available
Flash point method:	Data not available



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Evaporation rate:	Data not available
Flammability (if solid or gas):	Data not available
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Relative density:	1.35 g/cm ³
Solubility(ies)	Completely miscible in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available
Explosive properties	Data not available
Oxidising properties	Data not available

9.2. Other information

Data not available

10. Stability and reactivity

10.1. Reactivity

Can react with reducing agents. May react with concentrated acids and alkalis

10.2. Chemical stability

Product is stable under anticipated storage and handling conditions. Do not store below 4°C

10.3. Possibility of hazardous reactions

Can react with reducing agents, concentrated acids or alkalis, metallic powders. Reactions with alkaline materials may generate ammonia

10.4. Conditions to avoid

Excessive heat (to water boiling point), drying on combustible materials

10.5. Incompatible materials

Reducing agents

10.6. Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed

11. Toxicological information

11.1. Information on toxicological effects

Extrapolated from constituents

Acute toxicity	Oral – Rat – LD50 = 3,500 mg/kg body weight
Skin corrosion/irritation	Rat – LD50 > 5,000 mg/kg body weight
Serious eye damage/irritation	Rabbit – irritating to eyes
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-repeated exposure;	Data not available



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11.2. Other information

No other information

12. Ecological information

12.1. Toxicity

Data not available

Caustic Extracted Humic Acid

12.2. Persistence and degradability

Data not available

12.3. Bioaccumulative potential

Data not available

12.4. Mobility in soil

Data not available

12.5. Results of PBT and vPvB assessment

Data not available

12.6. Other adverse effects

Environmental fate	Not applicable
Photochemical ozone creation potential	Not applicable
Ozone depletion potential	Not applicable
Endocrine disrupting potential	Not applicable
Global warming potential	Not applicable

13. Disposal considerations

13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste

If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible, possibly as a low grade fertiliser.

Physical/ chemical properties which may affect waste treatment include the generation of an oxidising solution.

14. Transport information

14.1. UN number

Not applicable



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14.2. UN proper shipping name

ADR/RID Not dangerous goods
IMDG Not dangerous goods IATA Not dangerous goods

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

15. Regulatory information

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

Ozone depleting substance (EC No 2037/2000):	Not applicable
Persistent organic pollutants (EC No 850/2004)	Not applicable
Export and import of dangerous chemicals (EC No 689/2008)	Not applicable
COMAH/ Seveso II categories or named substance	Not applicable
REACH Authorisations and/or Restrictions	Not applicable
Any other relevant Safety, health and environmental regulations:	Not applicable

15.2. Chemical safety assessment A chemical safety assessment has not been carried out for this product

16: Other information

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

C Corrosive
Xi Irritant
Xn Harmful
R22 Harmful if swallowed.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Met Corr 1 Metal Corrosion Category 1
Acute Tox 4 Acute Toxicity Category 4
Skin Corr 1A Skin Corrosion Category 1A
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.



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This safety data sheet provides health and safety information. The product is to be used in applications consistent with best farming practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information data sheet is to the best of Agronomic Services knowledge correct as at the date of publication. Neither Agronomic Services or local supplier accepts liability for any loss or damage resulting from reliance on this information. Further information on this product may be obtained from the supplier whose name, address and telephone number will be found on the product container. The information provided herein is offered solely for your consideration, investigation and verification. This information herein is provided by Agronomic Services in good faith as accurate at the time of writing but without guarantee. This information includes information which has been generated by other parties and provided to Agronomic Services and which Agronomic Services has not independently verified. The information provided herein relates only to the specific product designated and may not be valid if the product is used in combination with any other materials or in any process.