

SDS COMPLETED 8TH JUNE 2015 VERSION 01
UPDATED: 20TH JANUARY 2022 REVISION NUMBER: 3

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name Symbio OxyMise REACH registration No. Not applicable

Product number: UFI: C5AT-G0NA-T005-4AS7

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

Identified use(s) Odour controller and hydrocarbon degradation aid in waste water treatment systems,

soil drainage improver, plant stimulator, water oxygenator

Uses advised against Mixing with combustible materials

1.3. Details of the supplier of the safety data sheet

Company name:

Origin Amenity Solutions Ltd

1-3 Freeman Court,

Jarman Way,

Orchard Road.

Royston,

Hertfordshire,

SG8 5HW

Tel: 0800 138 7222

Email: sales.symbio@originamenity.com

1.4. Emergency telephone number

Emergency phone No. 0800 138 7222 (09.00 – 17.00 GMT Monday – Friday)

National emergency telephone number 111

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.

Physical hazards

Not Classified

Health hazards

Serious eye damage (Category 1) – H318

Environmental hazards

Not Classified

2.2. Label elements

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

CLP Hazard Pictograms:



Signal word(s): Danger

Hazard Statements: H318: Causes serious eye damage



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Precautionary Statements: P280 Wear protective gloves and eye 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 P310 Immediately call a POISON CENTRE or doctor/ physician

UFI: C5AT-G0NA-T005-4AS7

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 nitrate	41.8%	6484-52-2	229-347-8	01-2119490981-27	H272, H319 SCL ≥90%
Calcium nitrate hydrate	3 - <10%	13477-34-4	233-332-1	01-2119495093-35	H272, H302, H318

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 soap and water. Remove contaminated clothing and

wash before reuse

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

shortness of breath



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If on skin (or hair): Irritation may occur to skin especially when already sore, dry or irritated.

Where a significant exposure is left unwashed systematic effects from skin

absorption can include dizziness, weakness, headache, nausea

If in eyes: Corrosion of the eye tissues can occur together with tearing and

considerable pain. If not washed burns, conjunctivitis, iritis or other eye

injuries can occur

If swallowed: Nausea and stomach pain may occur along with vomiting and diarrhoea

is expected. Ingestion of large quantities can result in nitrite toxicity

manifested as methaemoglobinaemia

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. Burns and irritation should be treated symptomatically.

Treatment regimes should be dictated by a medical professional

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: 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.

Recycle where possible



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6.4. Reference to other sections

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: Do not allow product to exceed 30°C

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: Odour controller and hydrocarbon degradation aid in waste water treatment systems, soil drainage improver, plant stimulator, water oxygenator

8:. Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure limits:

Data not available



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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: Clear-hazy, blue liquid

Physical state: Liquid Colour: Blue

Odour: Slight ammoniacal surfactant

Odour threshold: Data not available

pH: 6.5 – 7.5

Melting point:

Freezing point:

Data not available

Data not available

Initial boiling point: 100°C

Data not available Boiling range: Flash point: Data not available Flash point method: Data not available 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



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Relative density: 1.28-1.30 g/ml at 20°C Solubility(ies) Completely miscible in water

Partition coefficient: n-octanol/water

Auto-ignition temperature

Data not available

Decomposition temperature

Data not available

Viscosity

Composition temperature

Viscosity

Data not available

Data not available

Oxidising properties

Data not available

9.2. Other information

Data not available

10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Product is stable under anticipated storage and handling conditions

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 including ammonia

11. Toxicological information

11.1. Information on toxicological effects

Extrapolated from constituents

Acute toxicity Value derived from classification

LD50 >2,000 mg/kg body weight

Skin corrosion/irritation May be slightly irritating to skin Serious eye damage/irritation Classified as corrosive to the 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

11.2. Other information

No other information

12. Ecological information

12.1. Toxicity



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Species	Test	Value
Common carp (Cyprinus carpio)	LC50 48H	>100 mg/L
Water flea (Daphnia magna)	EC50 48H	>100 mg/L
Algae (Benthic diatoms)	EC50 10D	>1 g/L

12.2. Persistence and degradability

Inorganic content is non-biodegradable

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

13. Disposal considerations

13.1. Waste treatment methods

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

Waste treatment containers to be used for product include IBCs or HDPE drums, metal drums should only be used where lined with a protective coating

Recycle material where possible by filtration. 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 possibly as a low-grade fertiliser by a farmer or competent individual

Physical/ chemical properties which may affect waste treatment include the generation of an oxidising material where concentrated. Do not mix with reducing agents or oxidizable materials

14. Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

ADR/RID Not dangerous goods

IMDG Not dangerous goods IATA Not dangerous goods



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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

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Substance	%w/w	CAS no	EC no	REACH Registration no.
Ammonium nitrate	41.8%	6484-52-2	229-347-8	01-2119490981-27

Ozone depleting substance (EC No 2037/2000):

Persistent organic pollutants (EC No 850/2004)

Export and import of dangerous chemicals (EC No 689/2008)

COMAH/ Seveso II categories or named substance

REACH Authorisations and/or Restrictions

Any other relevant Safety, health and environmental regulations:

Not applicable

Not applicable

15.2 Chemical safety assessment

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

16: Other information

a) Revision

Inclusion of UFI number

New Logo

b) Key (or legend)

LD50 Lethal Dosage affecting 50% of sample population
 LC50 Lethal Concentration affecting 50% of sample population
 EC50 Effective Concentration affecting 50% of sample population

NOEC No Observed Effect Concentration c)

c) Details of relevant hazard information

H272 May intensify fire; oxidiser
 H302 Harmful if swallowed
 H318 Causes serious eye damage
 H319 Causes serious eye irritation

P280 Wear protective gloves and eye protection



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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTRE or doctor/ physician

d) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

Literature references

Data gathered for raw materials from European Chemicals Agency: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
Last accessed (10/10/2018)

Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd Some properties gathered from supplier SDS of constituent components

Disclaimer

The information in this SDS was obtained from sources which we believe to be reliable. Origin Amenity Solutions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate handling of the product by properly trained and qualified personnel. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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