

SAFETY DATA SHEET LIQUID TURF HARDENER

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

1.1. Product identifier

Product name LIQUID TURF HARDENER

Product number IPH002/10, IPH002/100, IPH002/1000

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

Identified uses Fertiliser for use on managed amenity turf

1.3. Details of the supplier of the safety data sheet

Supplier Headland Amenity Ltd

1 Burr Elm Court Main Street Caldecote Cambridge Cambridgeshire CB23 7NU

Tel. +44 (0)1223 491090

sds.enquiries@headlandamenity.com

Contact person Wendy Johnson

1.4. Emergency telephone number

Emergency telephone +44 (0)1223 491090 (9.00 - 5.00 GMT Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or Xn; R22. Xi; R41

1999/45/EC)

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H302 Harmful if swallowed.

H318 Causes serious eye damage.

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Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing and eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

Contains CALCIUM NITRATE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CALCIUM NITRATE 30-40%

CAS number: 15245-12-2 EC number: 239-289-5 REACH registration number: 01-

2119493947-16-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn; R22. Xi; R41

Eye Dam. 1 - H318

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition commentsThe data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if symptoms are severe or persist.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Get medical attention immediately.

Skin contact Remove affected person from source of contamination. Take off immediately all contaminated

clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical

attention if symptoms are severe or persist.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention

immediately.

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

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion Harmful if swallowed.

Skin contact Skin contact may cause redness and irritation.

Eye contact Irritation and redness, followed by blurred vision. Profuse watering of the eyes. Causes

serious eye damage.

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

Notes for the doctorNo specific recommendations.

Specific treatments Eye bathing equipment should be available on the premises.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Toxic gases or vapours. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known. Cool containers exposed to heat with water spray

and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-

combustible material. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Flush contaminated area with plenty of water. Avoid the spillage or

runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Avoid contact

with metals. Avoid the formation of mists.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Remove contaminated clothing and

protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away

from heat. Keep away from combustible materials. Store away from incompatible materials

(see Section 10).

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

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Protective equipment





Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles or face shield. Provide

eyewash station.

Hand protection Acid-resistant protective gloves.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not smoke in work area. Wash at the end of each work shift and before eating, smoking

and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do

not eat, drink or smoke when using this product.

Respiratory protection
No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Not known.

Odour threshold No information available.

pH (concentrated solution): 0.0-3.0

Melting point No information available.

Initial boiling point and range No information available.

Flash point Mixture not classed as flammable

Evaporation rate No information available.

Evaporation factor No information available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure No information available.

Vapour density No information available.

Relative density 1.35 - 1.45

Bulk density No information available.

Solubility(ies) No information available.

Partition coefficient No information available.

Auto-ignition temperature No information available.

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Decomposition Temperature No information available.

No information available. Viscosity

Not considered to be explosive. **Explosive properties**

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity May react with metals.

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

No information available.

10.4. Conditions to avoid

Conditions to avoid Extreme temperatures.

10.5. Incompatible materials

Materials to avoid Powdered metal. Metal containers.

10.6. Hazardous decomposition products

Hazardous decomposition

Possible irritant fumes.

products

reactions

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 1,445.09

Inhalation Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. Eye contact Irritating to eyes.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

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Bioaccumulative potential No information available.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

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Risk phrases in full R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

Hazard statements in full H302 Harmful if swallowed.

H318 Causes serious eye damage.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.