



SAFETY DATA SHEET KOPIS

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

1.1. Product identifier

Product name KOPIS
 Product number PST037/015
 Product Registration No. MAPP 19572

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

Identified uses Plant growth regulator for use on managed amenity turf.

1.3. Details of the supplier of the safety data sheet

Supplier Headland Amenity Ltd.
 1-3 Freeman Court
 Jarman Way
 Royston
 Hertfordshire
 SG8 5HW
 +44 (0)1763 255550
 sds@headlandamenity.com

1.4. Emergency telephone number

Emergency telephone +44 (0)1763 255550 (09.00 - 17.00 GMT Monday - Friday)

National emergency telephone number 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
 Health hazards Skin Sens. 1 - H317
 Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

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Precautionary statements	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P261 Avoid breathing dust.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.</p>
Supplemental label information	<p>EUH401 To avoid risks to human health and the environment, comply with the instructions for use.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

AMMONIUM SULPHATE	< 50%
CAS number: 7783-20-2 EC number: 231-984-1 REACH registration number: 01-2119455044-46-XXXX	
Classification	
Not Classified	
SODIUM HYDROGENSULPHATE	< 25%
CAS number: 7681-38-1 EC number: 231-665-7 REACH registration number: 01-2119552465-36-XXXX	
Classification	
Eye Dam. 1 - H318	
PROHEXADIONE CALCIUM	9.9%
CAS number: 127277-53-6	
Classification	
Aquatic Chronic 3 - H412	
SILICA GEL, PRECIPITATED, CRYSTALLINE FREE	< 10%
CAS number: 112926-00-8	
Classification	
Not Classified	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Show this Safety Data Sheet to the medical personnel.

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Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention.
Ingestion	Immediately rinse mouth. Drink 200-300ml of water. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes.

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

Inhalation	Information not available.
Ingestion	Information not available.
Skin contact	Information not available.
Eye contact	Information not available.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray. Powder. Foam.
Unsuitable extinguishing media	Carbon dioxide (CO ₂).

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.
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	Avoid generation of dust. Avoid contact with skin, eyes and clothing. Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Small Spillages: Contain with dust binding material and dispose of. Large Spillages: Scoop/sweep/shovel spill into closing containers. Avoid generation and spreading of dust. Dispose of contents/container in accordance with local regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Avoid generation and spreading of dust. Dust may form explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food, drink and animal feeding stuffs. Keep away from heat. Protect from moisture. Protect from sunlight. Keep at temperature not exceeding 40°C. Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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

Occupational exposure limits

AMMONIUM SULPHATE

Long-term exposure limit (8-hour TWA): WEL Total inhalable - 10 mg/m³ Respirable - 4 mg/m³ respirable dust

SILICA GEL, PRECIPITATED, CRYSTALLINE FREE

Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Eye/face protection Safety glasses with side-shields (frame goggles) e.g. EN 166.

Hand protection Suitable chemical resistant safety gloves (EN 374) 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), butyl rubber (0.7 mm).

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

Hygiene measures Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Granules.

Colour Brown.

Odour Mild. Sweetish.

pH pH (diluted solution): 2-4 (1%)

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Melting point	No information available.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	The product is not flammable.
Vapour pressure	No information available.
Bulk density	~ 831-895 kg/m ³
Solubility(ies)	Dispersible in water.
Auto-ignition temperature	375°C
Explosive properties	Not considered to be explosive.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions There are no hazardous reactions if handled and stored according to prescribed conditions.

10.4. Conditions to avoid

Conditions to avoid Avoid generation and spreading of dust. Avoid heat. Avoid moisture. Avoid exposure to high temperatures or direct sunlight. Keep at temperature not exceeding 40°C.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5.4 mg/l/4hr/day, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation Not irritating to the eyes.

Skin sensitisation

Skin sensitisation Mouse Local Lymph Node Assay (LLNA) mouse: Caused skin sensitization in animal studies (OECD Guideline 429).

Germ cell mutagenicity

Genotoxicity - in vitro Not determined.

Genotoxicity - in vivo Not determined.

Carcinogenicity

Carcinogenicity Not determined.

Specific target organ toxicity - single exposure

STOT - single exposure Not determined.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not determined.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₁₀, 7 days: 5.3 mg/l, *Lemna gibba* (Duckweed)
EC₅₀, 7 days: > 100 mg/l, *Lemna gibba* (Duckweed)
EC₁₀, 72 hours: 56.3 mg/l, *Pseudokirchneriella subcapitata*
EC₅₀, 72 hours: > 100 mg/l, *Pseudokirchneriella subcapitata*

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No specific test data are available.

12.4. Mobility in soil

Mobility No data 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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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

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments	This is the first issue.
Revision date	10/08/2021
Revision	1
SDS number	20654
Hazard statements in full	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.

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.