Revision date: 14/05/2019



SAFETY DATA SHEET

SMART ROTATIONS 1 Cover, Catch, Forage Crops, Leys

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name SMART ROTATIONS 1 Cover, Catch, Forage Crops, Leys

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

Identified uses Plant biofertiliser

Uses advised against
No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

PlantWorks Ltd.

Unit 930, Cornforth Drive

Kent Science Park Sittingbourne, Kent

ME9 8PX

1.4. Emergency telephone number

Emergency telephone +44 (0)1795 411527 (Mon-Fri 9am-5pm).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Pictogram Not Required

Precautionary statements P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention.

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P501 Dispose of contents/ container in accordance with national regulations.

Supplementary precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Do not breathe dust

2.3. Other hazards

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

The bacteria and fungi in this mixture are considered to belong to hazard group 1 as defined by the Advisory Committee on Dangerous Pathogens (ACDP) as "a biological agent unlikely to cause human disease". It should NOT be assumed. However, that these organisms will be innocuous in all situations or that infections can never occur. The mixture should therefore not be used by, or in the presence of immunocompromised persons. This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/EEC.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Silicon dioxide

CAS number: 7631-86-9 EC number: 231-545-4 20-40%

Substance with National workplace exposure limits.

Classification Not Classified

Aluminium Oxide

CAS number: 1344-28-1 EC number: 215-691-6 20-40 %

Substance with National workplace exposure limits.

Classification Not Classified

Quartz (SiO2)

CAS number: 14808-60-7 EC number: 238-878-4 20-40 %

Substance with National workplace exposure limits.

Classification Not Classified

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information medical

Get medical attention if any discomfort continues. Show this Safety Data Sheet to the

personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms

are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not

induce vomiting unless under the direction of medical personnel.

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Skin contact Rinse with water.

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Eye contact Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart.

Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact Irritating to eyes.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide,

dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

Thermal decomposition of some ingredients may give off fumes. Do not breathe fumes.

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers

exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify

appropriate authorities.

Special protective equipment

fire.

Self-contained breathing apparatus and full protective body clothing must be worn in case of

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Avoid contact with eyes. Wear protective clothing as

described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid pollution of sewers and watercourses.

6.3. Methods and material for containment and cleaning up

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Methods for cleaning up

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Contain and sweep up spillages. Place unusable material in clearly labelled containers of plastic bags for disposal. Wet residues are slippery, wash floor remove all traces.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep out of reach of children. Read and follow manufacturer's recommendations. Keep away from food, drink and animal feeding stuffs. Wear protective clothing as described in Section 8 of this safety data sheet. Keep pack tightly sealed when not in

Advice on general occupational Wash skin thoroughly after handling. Take off contaminated clothing. Wash

hygiene contaminated clothing before reuse.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Silicon dioxide

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

Aluminium Oxide

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

Quartz (SiO2)

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

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Eye/face protection Avoid contact with eyes.

Hand protection No specific hand protection recommended, nitrile gloves are advised. Hygiene measures Wash hands thoroughly after handling. Do not eat, drink or smoke when

using this product. Wash contaminated clothing before reuse.

Respiratory protection No specific recommendations. Provide adequate ventilation. Large Spillages: If

ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Solid Colour Gray

Odour
Odour threshold
Not available.
PH
Not available.
Melting point
Not available.
Initial boiling point and range
Not available.
Not available.
Not available.
Not available.

Flash point Not available. Evaporation rate Not available.

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Upper/lower flammability or explosive limits Not available. Vapour pressure Not available. Vapour density Not available. Relative density 0.9g/ml Solubility(ies) Not known. Partition coefficient Not available. Auto-ignition temperature Not available. **Decomposition Temperature** Not available. Not applicable. Viscosity

Explosive properties Not considered to be explosive.

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

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Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1 Information on Toxicological effects

Products not classified. Unlikely to be hazardous under normal conditions to use.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

12.2. Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil No data available.

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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 None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should

be considered.

Disposal methods Packaging: Reuse or recycle products wherever possible. Dispose of waste to licensed waste

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 N/A

14.2. UN proper shipping name N/A

14.3. Transport hazard class(es) No transport warning sign required

14.4. Packing group Not applicable

14.5. Environmentally hazardous None

14.6. Special precautions for user N/A

14.7. Transport in bulk according to Annex II N/A

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

National regulations Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of

Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure

limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

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None of the ingredients are listed or exempt.

SECTION 16: Other information

Training advice Read and follow manufacturer's recommendations.

Key literature references European Chemcals Agency http://echa.europa.eu/

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