

SAFETY DATA SHEET

Empathy AFTER PLANT Rose Food

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	Empathy AFTER PLANT Rose Food (granular)	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Plant feed.	
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		
	linder	
Emergency telephone	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only.	
	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only.	
Emergency telephone	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation	
Emergency telephone SECTION 2: Hazards identifi	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs Classification (EC 1272/2008	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation stance or mixture <u>)</u>	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs Classification (EC 1272/2008 Physical hazards	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation stance or mixture) Not Classified	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs Classification (EC 1272/2008 Physical hazards Health hazards	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation stance or mixture) Not Classified Not Classified	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs Classification (EC 1272/2008 Physical hazards Health hazards Environmental hazards	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation stance or mixture) Not Classified Not Classified	
Emergency telephone SECTION 2: Hazards identifi 2.1. Classification of the subs Classification (EC 1272/2008 Physical hazards Health hazards Environmental hazards 2.2. Label elements	+44 (0)1795 411527 (Mon-Fri 9am-5pm), +44 (0) 7562614920– Out of normal hours only. cation stance or mixture Not Classified Not Classified Not Classified	

rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

Supplementary precautionary statements	P280 Wear protective gloves/ protective clothing/ eye
	protection/ face protection.

2.3. Other hazards

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

This product does not contain any substances classifie	eu as FDT OF VFVD.	
SECTION 3: Composition/information on ingredients		
3.2. Mixtures		
Magnesium sulphate CAS number: 7487-88-9 E	EC number: 231-298-1	2-3%
Substance with National workplace exposure limits		
Classification		
Not Classified		
Potassium sulphate		
CAS number: 7778-80-5	EC number: N/A	10-15%
Substance with National workplace exposure limits.		
Classification Not Classified		
Rock phosphate		
CAS number: 1306-05-4	EC number: N/A	5-8%
Substance with National workplace exposure limits.		
Classification		
Not Classified		
Silicon dioxide		
CAS number: 7631-86-9	EC number: 231-545-4	2-5%
Substance with National workplace exposure limits.		
Classification Not Classified		
Aluminium Oxide CAS number: 1344-28-1	EC number: 215-691-6	>2 5 %
Substance with National workplace exposure limits.	EC HUILDEL 213-091-0	>2.5 %
Classification Not Classified		
Urea (CO(NH₂)₂)		
CAS number 57-13-6	EC number: 200-315-5	5-8 %
Substance with National workplace exposure limits.		
	2 of 11	

Classification Not Classified		
Quartz (SiO2)		
CAS number: 14808-60-7	EC number: 238-878-4	>2.5 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Green waste		
CAS number: N/A	EC number: N/A	20-30 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Alfalfa		
CAS number: N/A	EC number: N/A	20-25 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Seaweed meal		
CAS number: N/A	EC number: N/A	2-5 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Hoof and horn		
CAS number: N/A	EC number: N/A	5-10 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Rock dust		
CAS number: N/A	EC number: N/A	1-2 %
Substance with National workpla	ce exposure limits.	
Classification Not Classified		
Humate		
CAS number: 68514-28-3	EC number: N/A	0.5-1 %
Substance with National workpla	ce 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.	
Skin contact	Rinse with water.	
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	t aid personnel should wear appropriate protective equipment during any rescue.	
4.2. Most important symptoms	s and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
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 neededNotes for the doctorTreat symptomatically.		

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing mediaThe 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 or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with
firefighting	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 Self-contained breathing apparatus and full protective body clothing must be worn in case of fire.

SECTION 6: Accidental relea	SECTION 6: Accidental release measures		
6.1. Personal precautions, pr	6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	Avoid contact with eyes. Wear protective clothing as described in Section 8 of this safety data sheet.		
6.2. Environmental precaution	ns		
Environmental precautions	Avoid pollution of sewers and watercourses. May release ammonium ions that are toxic to fish.		
6.3. Methods and material for	r containment and cleaning up		
Methods for cleaning up	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 section	ons		
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 st	orage		
7.1. Precautions for safe hand Usage precautions	dling 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 use		
Advice on general occupatior hygiene	al Wash skin thoroughly after handling. Take off contaminated clothing. Wash 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

Urea (CO(NH₂)₂)

Dusts not otherwise classified: 8hr TWA = 10 mg/m3

Seawed neal Not known Green wasie Not known Humate Not known Affafa Not known Rock dust Not known Rock dust Not known Rock dust Not known Rock dust Not known Rock general population - Green systemic effect: 21.3mg/kg/day, Intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - STP: 10 mg/l Workers - Inhalation; Long term systemic effects: 12.8mg/kg/day PNEC Fresh water; 0.68 mg/l - STP: 10 mg/l Workers - Dermal; Long term systemic effects: 12.8mg/kg/day PNEC Rockers - Inhalation - Chai; Long term systemic effects: 12.8mg/kg/day PNEC Seawed read: population - Chai; Long term systemic effects: 12.8mg/kg/day Rockers - Inhalation; Long term systemic effects: 12.8mg/kg/day PNEC Seawed read: population - Chai; Long term systemic effects: 12.8mg/kg/day Rockers - Inhalation; Long term systemic effects: 12.8mg/kg/day PNEC Seawed read: population - Chai; Long term systemic effects: 12.8mg/kg/day Rockers - Inhalation; Long term systemic effects: 21.3mg/kg/day Rockers - Dermal; Long term systemic effects: 21.3mg/kg/day Rockers - Derma		
Not known Humale Not known Humale Not known Humale Not known Affafa Not known Hoof and hom Not known Rock dust Not known Rock dust Not known Rock dust Not known Negresium subpate DNEL Not known PNEC PNEC PNEC	Seaweed meal	
Not known Hunale Not known Afala Not known Hora of hom Rock dust Hora of hom Not known Hora of hom Rock phosphate Workers - demail, Long-term systemic affect 21.3mg/kg/day, Not known General population - demail, Long-term systemic affect: 12.8mg/kg/day, DNEL inhalation; Long term-systemic affect: 12.6mg/m3 General population - demail, Long-term systemic affect: 12.8mg/kg/day, 12.8mg/kg/day, inhalation; Long term systemic affect: 12.8mg/kg/day PNEC - fresh water; 0.68mg/l - intermittert releases: 6.8 mg/l - intermittert releases: 6.8 mg/l - marine water; 0.08mg/l - Marine water< 0.08mg/l	Not known	
Hunate Net known Alafa Net known Not known Net known Hoof and hom Net known Rock duet Net known Rock duet Net known Rock duet Net known Rock duet Net known Rock phosphate Net known Magnesium subpate Inshalation; Long term systemic effect 21.3mg/kg/day. DNEL inshalation; Long term systemic effect: 12.8mg/kg/day. 11.8mg/sg/day. instruction dermal; Long term systemic effect: 12.8mg/kg/day. PNEC -fresh water: 0.68mg/l -intermittent releases; 6.8 mg/l -intermittent releases; 6.8 mg/l -intermittent releases; 6.8 mg/l -sewage treatment plant N/A 10mg/l Potasium subptate General population - Inhalation; Long term systemic effects: 11.1 mg/m² PNEC -fresh water: 0.68 mg/l -intermittent releases; 6.8 mg/l -sewage treatment plant N/A 10mg/l Workers - Dermal; Long term systemic effects: 12.8 mg/kg/day -sewage treatment plant N/A 10mg/l PNEC -Fresh water: 0.68 mg/l -semale cong term systemic effects: 12.8 mg/kg/day Seneral population - Dermal; Long term systemic effects: 12.8 mg/kg/day -serie </td <td>Green waste</td> <td></td>	Green waste	
Not known Afafa Not known Afafa Not known Hoof and hom Not known Rock dust Not known Rock dust Not known Rock phosphate Not known Magnesium sulphate DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Not known	
Alfaifa Not known Hod and hom Not known Rock dust Not known Rock dust Not known Rock phosphate Not known Rock phosphate Not known Rock phosphate Not known Rock phosphate Not known PNEL inhalation; Long term systemic effect 21 3mg/kg/day, inhalation; Long term systemic effect: 12.8mg/kg/day, inhalation; Long term systemic effect: 11.1 mg/m3 PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - eswage treatment plant N/A 10mg/l Potassium sulphate General population - Inhalation; Long term systemic effects: 11.1 mg/m3 General population - Oral; Long term systemic effects: 12.8mg/kg/day General population - Oral; Long term systemic effects: 12.8mg/kg/day PNEC - Fresh water; 0.68 mg/l - intermittent releases; 6.8 mg/l - stresh water; 0.068 mg/l - intermittent releases; 5.7 mg/m³ Workers - Inhalation; Long term systemic effects: 12.8mg/kg/day General population - Oral; Long term systemic effects: 12.8mg/kg/day ESEE STP; 10 mg/l - STP; 10 mg/l STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 37.6 mg/m³ - Workers - Inhalation; Long term systemic effects: 12.8mg/kg/day <	Humate	
Not known Hof and hom Not known Rock dust Rock dust Not known Rock phosphete Not known Not known Rock dust Magnesium sulphate Workers - dermal; Long-term systemic effect: 21.3mg/kg/day, inhalation; Long-term systemic effect: 37.6mg/m3 DNEL Workers - dermal; Long-term systemic effect: 13.mg/kg/day, inhalation; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - marine water; 0.080mg/l - marine water; 0.080mg/l - fresh water; 0.68 mg/l - fresh water; 0.68 mg/l - NEC - Fresh water; 0.68 mg/l - NEC - Fresh water; 0.68 mg/l - Nether: - Fresh water; 0.68 mg/l - intermittent release; 6.8 mg/l - STP; 10 mg/l - Workers - Inhalation; Long term systemic effects: 21.3 mg/kg/day	Not known	
Hoof and hom Not known Rock dust Not known Rock dust Not known Not known Rock phosphate Not known Warren Status Statu	Alfalfa	
Not known Rock dust Not known Rock dust Not known Rock phosphate Not kn	Not known	
Rock dust Not known Rock phosphate Not known Megnesium sulphate Workers – dermal; Long-term systemic effect 21.3mg/kg/day, inhalation; Long term- systemic effect 21.3mg/kg/day, inhalation; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 12.8mg/kg/day PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - marine water; 0.068mg/l - marine water; 0.068mg/l - sewage treatment plant N/A 10mg/l PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - marine water; 0.068mg/l - intermittent release; 6.8 mg/l - sereal population - Inhalation; Long term systemic effects: 11.1 mg/m ³ General population - Dermai; Long term systemic effects: 12.8 mg/kg/day General population - Dermai; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day Vorkers - Inhalation; Long term systemic effects: 37.6 mg/m ³ Workers - Dermai; Long term systemic effects: 21.3 mg/kg/day General population - Unitermittent release; 6.8 mg/l - STP; 10 mg/l Korkers - Dermai; Long term systemic effects: 21.3 mg/kg/day General population - Unitermittent release; 6.3 mg/l - STP; 10 mg/l <	Hoof and horn	
Not known Rock phosphate Not known Magnesium sulphate Magnesium sulphate Workers - dermal; Long-term systemic effect 21.3mg/kg/day, inhalation; Long term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - sewage treatment plant N/A 10mg/l POtassium sulphate General population - Inhalation; Long term systemic effects: 11.1 mg/m³ DNEL General population - Oral; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - intermittent release; 6.8 mg/l Narine water; 0.068 mg/l - intermittent release; 6.8 mg/l - Norite water; 0.68 mg/l - STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Appropriate engineering controls Provide adequate ventilation. Eye/face protection Avoid contact with eyes. <t< td=""><td>Not known</td><td></td></t<>	Not known	
Rock phosphate Workers - dermal; Long-term systemic effect: 21.3mg/kg/day, inhalation; Long term systemic effect: 37.5mg/m3 General population - dermal; Long-term systemic effect: 11.1mg/m3 PNEL Workers - dermal; Long-term systemic effect: 11.1mg/m3 General population - dermal; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - sewage treatment plant N/A 10mg/l Potassium sulphate General population - Inhalation; Long term systemic effects: 11.1 mg/m³ General population - Oarmai; Long term systemic effects: 12.8mg/kg/day; General population - Oarmai; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - intermitten releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - issuege treatment plant N/A 10mg/l Potassium sulphate General population - Inhalation; Long term systemic effects: 11.1 mg/m³ General population - Oarl; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - Marine water; 0.68 mg/l - STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Appropriate engineering controls Povide adequate ventilation. EyerG Previde adequate ventilation. EyerG Fresh water; 0.68 mg/l - STP; 10 mg/l Appropriate engineering controls <	Rock dust	
Not known Magnesium sulphate DNEL Workers - dermal; Long-term systemic effect 21.3mg/kg/day, inhalation; Long term-systemic effect: 37.6mg/m3 General population - dermal; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - intermittent releases; 6.8 mg/l - marine water, 0.068mg/l - sewage treatment plant N/A 10mg/l Potassium sulphate - DNEL General population - Inhalation; Long term systemic effects: 11.1 mg/m3 General population - Dermal; Long term systemic effects: 12.8mg/kg/day General population - Dermal; Long term systemic effects: 12.8mg/kg/day General population - Oral; Long term systemic effects: 21.3 mg/kg/day PNEC - Fresh water; 0.68 mg/l - Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l - STP; 10 mg/l Boropriate engineering controls Provide adequate ventilation. Eyes/ace protection Avoid contact with eyes. Large Spillages: Large Spillages: Avoid contact with eyes. Large Spillages: Hand protection No specific hand protection recommended. No specific recommendations. P	Not known	
Magnesium sulphate Workers - dermal; Long-term systemic effect: 21.3mg/kg/day, inhalation; Long term systemic effect: 37.6mg/m3 DNEL Camparal population - dermal; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - marine water; 0.068mg/l - marine water; 0.068mg/l - marine water; 0.068mg/l - marine water; 0.068mg/l Potassium sulphate General population - Inhalation; Long term systemic effects: 11.1 mg/m3 DNEL General population - Dermal; Long term systemic effects: 12.8mg/kg/day General population - Dermal; Long term systemic effects: 12.8mg/kg/day PNEC - Fresh water; 0.068 mg/l - Marine water; 0.068 mg/l - Marine water; 0.068 mg/l - Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l - Intermittent release; 6.8 mg/l - Intermittent release; 6.3 mg/l - Intermittent release; 6.3 mg/l - STF; 10 mg/l Workers - Inhalation; Long term systemic effects: 21.3 mg/kg/day - F2.Exposure controls Provide adequate ventilation. Appropriate engineering controls Provide adequate ventilation. Eye/face protection Large Spillages: Avoid contact with eyes. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Hand protection Hygiene measures No specific recommended. No specific recommended. No specific recommended. No specific recommended. No specific recommended. No specific recommended. No specing readmended. No specific recommended. <td>Rock phosphate</td> <td></td>	Rock phosphate	
NEL Workers – dermal; Long-term systemic effect: 31.3mg/kg/day, inhalation; Long term systemic effect: 32.6mg/m3 General population – dermal; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect: 11.1mg/m3 PNEC - fresh water; 0.68mg/l - marine water; 0.068mg/l - marine water; 0.068mg/l - sewage treatment plant N/A 10mg/l Potassium sulphate	Not known	
DNEL inhalation; Long term-systemic effect: 37.6 mg/m3 General population – dermal; Long-term systemic effect: 11.2 kmg/kg/day, inhalation; Long-term systemic effect: PNEC - fresh water; 0.68 mg/l - intermittent releases; 6.8 mg/l - intermittent releases; 6.8 mg/l - marine water; 0.068 mg/l - sewage treatment plant N/A 10 mg/l Potassium sulphate	Magnesium sulphate	
 intermittent releases; 6.8 mg/l marine water; 0.068mg/l sewage treatment plant N/A 10mg/l Potassium sulphate DNEL General population - Inhalation; Long term systemic effects: 11.1 mg/m^a General population - Dermal; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day PNEC Fresh water; 0.68 mg/l 	DNEL	inhalation; Long term- systemic effect: 37.6mg/m3 General population – dermal; Long-term systemic effect: 12.8mg/kg/day, inhalation; Long-term systemic effect:
Potassium sulphate DNEL General population - Inhalation; Long term systemic effects: 11.1 mg/m³ General population - Dermal; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l - Intermittent release; 6.8 mg/l - Intermittent release; 6.8 mg/l - STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Vorkers - Inhalation; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Vorkers - Dermal; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Appropriate engineering controls Provide adequate ventilation. Eye/face protection Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Hand protection No specific hand protection recommended. Hygiene measures No specific hand protection recommended. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.	PNEC	- intermittent releases; 6.8 mg/l - marine water; 0.068mg/l
General population - Inhalation; Long term systemic effects: 11.1 mg/m³ General population - Dermal; Long term systemic effects: 12.8 mg/kg/day General population - Oral; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l - Intermittent release; 6.8 mg/l - STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 37.6 mg/m³ Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day - S2. Exposure controls Appropriate engineering controls Eyee/face protection Large Spillages: Hand protection Hand protection Hand protection Hygiene measures Respiratory protection	Potassium sulphate	
General population - Dermal; Long term systemic effects: 12.8 mg/kg/day PNEC - Fresh water; 0.68 mg/l - Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l - STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 37.6 mg/m³ Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day - STP; 10 mg/l Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day 8.2. Exposure controls Appropriate engineering controls Provide adequate ventilation. Eye/face protection Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Hand protection No specific hand protection recommended. 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	DNEL	
 Marine water; 0.068 mg/l Intermittent release; 6.8 mg/l STP; 10 mg/l Workers - Inhalation; Long term systemic effects: 37.6 mg/m³ Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day 8.2. Exposure controls Appropriate engineering controls Provide adequate ventilation. Eye/face protection Avoid contact with eyes. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Hand protection No specific hand protection recommended. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. No specific recommendations. Provide adequate ventilation. Large Spillages: If 		General population - Dermal; Long term systemic effects: 12.8mg/kg/day
Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day 8.2. Exposure controls Appropriate engineering controls Provide adequate ventilation. Eye/face protection Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Hand protection No specific hand protection recommended. 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	PNEC	- Marine water; 0.068 mg/l - Intermittent release; 6.8 mg/l
Appropriate engineering controlsProvide adequate ventilation.Eye/face protectionAvoid contact with eyes.Large Spillages:Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.Hand protectionNo specific hand protection recommended.Hygiene measuresWash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.Respiratory protectionNo specific recommendations. Provide adequate ventilation. Large Spillages: If		
Eye/face protection Large Spillages:Avoid contact with eyes. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.Hand protection Hygiene measuresNo specific hand protection recommended. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. No specific recommendations. Provide adequate ventilation. Large Spillages: If	8.2. Exposure controls	
Large Spillages:Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.Hand protectionNo specific hand protection recommended.Hygiene measuresWash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.Respiratory protectionNo specific recommendations. Provide adequate ventilation. Large Spillages: If	Appropriate engineering controls	Provide adequate ventilation.
using this product. Wash contaminated clothing before reuse.Respiratory protectionNo specific recommendations. Provide adequate ventilation. Large Spillages: If	Large Spillages: Hand protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. No specific hand protection recommended.
		using this product. Wash contaminated clothing before reuse. No specific recommendations. Provide adequate ventilation. Large Spillages: If

Empathy AFTER PLANT Rose Food

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	3
Appearance	Solid
Colour	Brown with white granules
Odour	Medium/Strong
Odour threshold	Not available.
рН	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.8g/ml
Solubility(ies)	Not known.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
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 subsection	ns of this section for further details.

10.2. Chemical stability

Stability

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 reaction	ons
	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	on products
Hazardaya decomposition	Doos not decompose when used and stored as recommanded. Thermal decomposition or

Hazardous decompositionDoes not decompose when used and stored as recommended. Thermal decomposition or
combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Causes possible eye irritation.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Causes possible skin irritation.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	
· · · · ·	Based on available data the classification criteria are not met.
Reproductive toxicity - develop	ment Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard General information	Not relevant. Solid. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
	Potassium sulphate
Acute toxicity - oral	

Notes (oral LD₅₀)

 LD_{50} : >2000 mg/kg, Oral, Rat Read-across data.

Revision date: 10/02/2019	Empathy AFTER PLANT Rose Food
Acute toxicity - dermal	
Notes (dermal LD₅₀)	LD₅₀ : >2000 mg/kg, Dermal, Rat
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	LC₀ : 3.6 mg/m³, Inhalation, Aerosol, Rat
Skin corrosion/irritation	
Human skin model test	Cell Viability (5%) 15 minutes Not irritating.
Serious eye damage/irritation	
Serious eye	Causes serious eye damage.
damage/irritation	
Skin sensitisation	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.
Carcinogenicity	
Carcinogenicity	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

SECTION 12: Ecological Inform	nation
Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility of frequent spills can have harmful or damaging effect on the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met.
Potassium sulphate	
Acute toxicity – fish	LC₅₀, 96 hours: 680 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity – aquatic inverteb	rates LC₅₀, 48 hours: 720 mg/l, Daphnia magna
Magnesium sulphate	
Acute toxicity – crustacea	LC50, 48 hours: 149.6 – 191.36 mg/l (Tubificid worm: Tubifex tubifex)
Acute toxicity – Fish	LC50, 96 hours: 2610 -3080 mg/l (Fathead minnow: Pimephales promelas)
12.2. Persistence and degradat	bility
Persistence and degradability	The degradability of the product is not known.
12.3. Bioaccumulative potentia	<u>I</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.
12.4. Mobility in soil	
Mobility	No data available.

12.5. Results of PBT and	
Results of PBT and vPvB vPvB.	assessment This product does not contain any substances classified as PBT or
12.6. Other adverse effects	_
Other adverse effects	None known.
SECTION 13: Disposal cons	siderations
13.1. Waste treatment method	ods
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 inf	ormation
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 r Not applicable.	<u>name</u>
14.3. Transport hazard cla Not required	<u>ss(es)</u>
14.4. Packing group Not applicable.	
14.5. Environmentally haza Not applicable.	ardous substance/marine pollutant
14.6. Special precautions f Not applicable.	<u>or</u> user
14.7. Transport in bulk acc Not applicable.	cording to Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory i	nformation
15.1. Safety, health and er National regulations Health	nvironmental regulations/legislation specific for the substance or mixture n 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

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms ADR: European Agreement concerning the International Carriage of Dangerous Goods by used in the safety data sheet Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC50: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations Eye Irrit. = Eye irritation and acronyms

Training advice Read and follow manufacturer's recommendations.

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.