# SAFETY DATA SHEET

**Dirt Grow** 



SECTION 1: Identification of the substance/mixture and of the company/ undertaking		
1.1 Product identifier		
Product name	Dirt Grow	
1.2 Relevant identified uses	of the substance or mixture and uses advised against	
Product use	Fertiliser.	
1.3 Details of the supplier of	the safety data sheet	
Intense Nutrients Unit 12 Lovedere Farm Goathurst Somerset TA5 2DD T +44 (0) 1278 661 476 www.intensenutrients.com		
e-mail address of person responsible for this SDS	info@intensenutrients.com	
1.4 Emergency telephone nu Supplier	mber	
Telephone number	+44(0)1278 661 476	
SECTION 2: Hazards	identification	
2.1 Classification of the subs	tance or mixture	

**Product definition** Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 



Signal word	Warning		
Hazard statements	H319 - Causes serious eye irritation.		
Precautionary statements			
General	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.		
Prevention	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.		
Response	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.		
Storage	Not applicable.		
Disposal	Not applicable.		
Date of issue/Date of revision	14/04/2019 Date of previous issue n/a Version .1.0 1/12		

## **SECTION 2: Hazards identification**

Supplemental label elements

Annex XVII - Restrictions Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### 2.3 Other hazards

Other hazards which do None known. not result in classification

## **SECTION 3: Composition/information on ingredients**

3.2	Mixtu	res

### Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
urea phosphate	EC: 225-464-3 CAS: 4861-19-2	<10	Skin. Corr. 1B, H314 Eye Dam. 1, H318	[1]
potassium nitrate	EC: 231-818-8 CAS: 7757-79-1	<10	Ox. Sol. 3, H272 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
2,2-Di-Bromo-3-Nitrilo- Propionamide	CAS: 10222-01-2 EINECS: 233-539-7	<0.01	Met. Corr 1 H290 Eye Dam 1 H318 Acute Tox. 4 H302 Acute Tox. 4 H332 Skin Irrit. 2 H315 Skin Sens 1 H317 Aqua. Chr. 3 H412 See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Substance classified with a physical, health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

I.1 Description of first aid measures			
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		

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

Potential acute health effects			
Eye contact	Causes serious eye irritation.		
Inhalation	No known significant effects or critical hazards.		
Skin contact	No known significant effects or critical hazards.		
Ingestion	No known significant effects or critical hazards.		
Over-exposure signs/symptoms			
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	No specific data.		
Skin contact	No specific data.		
Ingestion	No specific data.		
4.3 Indication of any immediat	e medical attention and special treatment needed		

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

## **SECTION 5: Firefighting measures**

Ŭ	5	
5.1 Extinguishing media		
Suitable extinguishing media	Non-combustible. Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising fro	om the substance or mixture	
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: nitrogen oxides metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	
Additional information	No specific fire or explosion hazard.	

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

,,,	
For non-emergency : personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders :	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for co	entainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe hand	ling
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

Section 7. Handling and storage: The information in this section contains generic advice and guidance.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

#### Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Date of issue/Date of revision

### **SECTION 8: Exposure controls/personal protection**

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. Recommended: Wear safety glasses with side protection in accordance with EN 166. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: butyl rubber 0.7 mm EN (374).
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Colour	Green/Brown
Odour	Odourless.
Odour threshold	Not available.
рН	~3
Melting point/freezing point	Not available.
Initial boiling point and	Not available.
boiling range	
Flash point	Non-combustible.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
	NI ( 11 II
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density	1.15 g/cm³ [20°C]

Date of issue/Date of revision

## **SECTION 9: Physical and chemical properties**

Solubility(ies)	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/	Not available.
water	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Dynamic (room temperature): <20 mPa·s
Explosive properties Oxidising	No specific fire or explosion hazard.
properties	None

#### 9.2 Other information

No additional information.

and reactivity
No specific test data related to reactivity available for this product or its ingredients.
The product is stable.
Under normal conditions of storage and use, hazardous reactions will not occur.
Keep away from heat. Do not store below the following temperature: 0°C.
strong alkalis.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

11.1 Information on toxicologie	cal effects
Acute toxicity	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Acute toxicity estimates	
Not available.	
Irritation/Corrosion	
<b>Conclusion/Summary</b>	
Skin	Based on available data, the classification criteria are not met.
Eyes	Based on available data, the classification criteria are not met.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	Based on available data, the classification criteria are not met.
Respiratory	Based on available data, the classification criteria are not met.
Mutagenicity	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Carcinogenicity	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	Not available.
Specific target organ toxicity	(single exposure)

## **SECTION 11: Toxicological information**

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure Potential acute health effects	Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.
Eye contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure	Remarks
Not available.					
Conclusion/Summary	Not available.				
General	No known significa	ant effects or o	critical hazard	S.	
Carcinogenicity	No known significa	nt effects or	critical haza	rds.	
Mutagenicity	No known significa	int effects or	critical haza	rds.	
Teratogenicity	No known significant effects or critical hazards.				
Developmental effects	No known significant effects or critical hazards.				
Fertility effects	No known significant effects or critical hazards.				
Absorption	Based on availab	le data, the cla	assification cri	teria are not met.	
Other information	Not available.				

## **SECTION 12: Ecological information**

#### 12.1 Toxicity **Conclusion/Summary** Not toxic. 12.2 Persistence and degradability **Conclusion/Summary** Not available. 12.3 Bioaccumulative potential Not available. 12.4 Mobility in soil Not available. Soil/water partition coefficient (Koc) Not available. **Mobility** 12.5 Results of PBT and vPvB assessment PBT Not applicable. vPvB Not applicable. 12.6 Other adverse effects No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

Product	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
Date of issue/Date of revis	ion 14/04/2019	Date of previous issue	n/a	Version 1.0 9/

Dirt Grow				
SECTION 14: Transport information				
Label				
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	Marine Pollutant: No	No.
Additional information	-	-	-	-

14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

Not available.

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Other EU regulations

Europe inventory Not determined.

### Ozone depleting substances (1005/2009/EU)

Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### National regulations

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

# Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

## **SECTION 15: Regulatory information**

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

International lists National inventory	
Australia	Not determined.
Canada	All components are listed or exempted.
China	All components are listed or exempted.
Japan	Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	Not determined.
New Zealand	All components are listed or exempted.
Philippines	All components are listed or exempted.
Republic of Korea	All components are listed or exempted.
Taiwan	All components are listed or exempted.
Turkey United States	Not determined. All components are listed or exempted.
15.2 Chemical safety assessment	This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations	ATE = Acute Toxicity Estimate
and acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	·
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Eye Irrit. 2, H319		Justification Expert judgment

1.0

### **SECTION 16: Other information**

SECTION 16. Other information				
Full text of classifications [CLP/GHS]	Acute Tox. 4, H332 Skin Corr. 1B H314	ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION Category 1B		
	Aquatic Chronic 3,	CHRONIC AQUATIC HAZARD - Category 1		
	H412 Eye Dam. 1, H318			
	Eye Dam. 1, H318	- Category 1 SERIOUS EYE DAMAGE/IRRITATION - Category 1		
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category		
	Ox. Liq. 2, H272	OXIDIZING LIQUIDS - Category 2		
	Ox. Sol. 3, H272	OXIDIZING SOLIDS - Category 3		
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2		
	Skin Sens. 1, H317 Met. Corr 1, H290	SKIN SENSITIZATION - Category 1 CORROSIVE TO METALS - Category 1		
Date of issue/ Date of revision	14/04/2019	14/04/2019		
Date of previous issue	n/a			

Date of previous issue Version

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.