

Specialist Products

Diamond Green

Material Safety Data Sheet

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

1.1 Product Identifier Diamond Green

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

Relevant uses: Fertiliser. For professional use only.
Uses advised against: All uses not specified in this section or in section 7.3

1.3. Details of the supplier of the safety data sheet

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.
Phone: +44 (0) 1189 710 995
Email: growth@indigrow.com

1.4. Emergency telephone number +44 (0) 7725 962 366

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GB CLP Regulation: The product is not classified as hazardous according to GB CLP Regulation.

2.2. Label elements

GB CLP Regulation:
Hazard indications: Non-applicable
Cautionary advice: Non-applicable
Supplementary information: EUH208: Contains Pine, Pinus sylvestris, ext.. May produce an allergic reaction.
EUH210: Safety data sheet available on request.

2.3. Other hazards

Non-applicable

SECTION 3: Composition/Information on Ingredients

3.1. Substance

Non-applicable.

3.2. Mixture

Chemical description: Mixture composed of inorganic substances
Components: In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification (CAS)	Chemical Name	Classification	Concentration
10043-52-4	calcium chloride	Eye Irrit. 2: H319 - Warning	2.5 - <10 %
5949-29-1	Citric Acid Monohydrate	Eye Irrit. 2: H319 - Warning	1 - <2.5 %
84012-35-1	Pine, Pinus sylvestris, ext.	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	<1 %
69-72-7	Salicylic acid	Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.



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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:	This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.
By skin contact:	This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.
By eye contact:	Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.
By ingestion/aspiration:	Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media: IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for fire-fighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2. Environmental precautions

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3. Methods and material for containment and cleaning up

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4. Reference to other sections

See sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe manipulation: Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

Technical recommendations for the prevention of fires and explosions:

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

Technical recommendations to prevent ergonomic and toxicological risks:

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks:

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for storage: Minimum Temp.: 5°C

Maximum Temp.: 30°C

General conditions for storage: Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

7.3. Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.



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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
Propane-1,2-diol CAS: 57-55-6	WEL (8h)	150 ppm	474 mg/m ³
	WEL (15 min)	-	-
Dipropylene Glycol Methyl Ether CAS: 34590-94-8	WEL (8h)	50 ppm	308 mg/m ³
	WEL (15 min)	-	-

8.2. Exposure controls

General security and hygiene measures in the work place:

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding "CE marking" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection:	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.		
Specific protection for the hands:	Pictogram:	Mandatory hand protection	
	PPE:	Protective gloves against minor risks	
	Remarks:	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018	
Ocular and facial protection:	Pictogram:	Mandatory face protection	
	PPE:	Panoramic glasses against splash/projections.	
	Remarks:	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.	
Bodily protection:	PPE:	Work clothing	
	Remarks:	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.	
	PPE:	Anti-slip work shoes	
	Remarks:	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007	
Additional emergency measures:	Emergency measure:	Emergency shower	
	Standards:	ANSI Z358-1; ISO 3864-1:2011; ISO 3864-4:2011	
	Emergency measure:	Eyewash stations	
	Standards:	DIN 12 899; ISO 3864-1:2011; ISO 3864-4:2011	
Environmental exposure controls:	In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.		

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Undefined
Colour:	Brown
Odour:	Undefined
Relative density at 20 °C:	1.11 - 1.15
pH:	2.1 - 3.1
Flash Point:	Non Flammable (>60 °C)

9.2. Other information

Non-applicable.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2. Chemical stability

Chemically stable under the conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Applicable for handling and storage at room temperature:

Shock and friction:	Not applicable
Contact with air:	Not applicable
Increase in temperature:	Precaution
Sunlight:	Precaution
Humidity:	Not applicable

10.5. Incompatible materials

Acids:	Avoid strong acids
Water:	Not applicable
Combustive materials:	Avoid direct impact
Combustible materials:	Not applicable
OtherS:	Avoid alkalis or strong bases

10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications:	In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:
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Ingestion: Acute toxicity: Based on available data, the classification criteria are not met.
Corrosivity/Irritability: Based on available data, the classification criteria are not met.

Inhalation: Acute toxicity: Based on available data, the classification criteria are not met.
Corrosivity/Irritability: Based on available data, the classification criteria are not met.

Contact with the skin and the eyes: Contact with the skin: Based on available data, the classification criteria are not met.
Contact with the eyes: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
Based on available data, the classification criteria are not met.

Sensitizing effects:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT)-time exposure:
Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

Specific target organ toxicity (STOT)-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
calcium chloride CAS: 10043-52-4	LD50 oral	2301 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citric Acid Monohydrate CAS: 5949-29-1	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5500 mg/kg	Rat
	LC50 inhalation	Non-applicable	
Salicylic acid CAS: 69-72-7	LD50 oral	891 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculation method)	Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	20 mg/L (4 h) (Calculation method)	Non-applicable

SECTION 12: Ecological Information

The experimental information related to the ecotoxicological properties of the mixture itself is not available.

12.1. Toxicity

Identification	Acute toxicity		Species	Genus
calcium chloride CAS: 10043-52-4	LC50	4630 mg/L (96 h)	Pimephales promelas	Fish
	EC50	2400 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	27000 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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Citric Acid Monohydrate CAS: 5949-29-1	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	120 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable	-	
Pine, Pinus sylvestris, ext. CAS: 84012-35-1	LC50	>1 - 10 mg/L (96 h)	-	Fish
	EC50	>1 - 10 mg/L (48 h)	-	Crustacean
	EC50	>1 - 10 mg/L (72 h)	-	Algae

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
Citric Acid Monohydrate CAS: 5949-29-1	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	5 days
	BOD5/COD	Non-applicable	% Biodegradable	72 %

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
Citric Acid Monohydrate CAS: 5949-29-1	BCF	3
	Pow Log	-1.64
	Potential	Low

12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
Citric Acid Monohydrate CAS: 5949-29-1	Koc	3.1	Henry	4.3E-14 Pa·m ³ /mol
	Conclusion	Very High	Dry Soil	No
	Surface tension	Non-applicable	Moist Soil	No
Salicylic acid CAS: 69-72-7	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry Soil	Non-applicable
	Surface tension	2.444E-2 N/m (207.25 °C)	Moist Soil	Non-applicable

12.5. Results of PBT and vPvB assessment

Non-applicable

12.6. Other adverse effects

Not described

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

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Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated
UK legislation: The Waste Regulations 2011.

SECTION 14: Transport Information

This product does not require a classification for transport (ADR/RID,IMDG,IATA)

SECTION 15: Regulatory Information

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

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

15.2. Chemical Safety Assessment

The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

ISSUE 1 08/21 GCL
