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

1.1 Product Identifier Magnum CO

1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant uses: Wetting agent. For professional use only.

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: Classification of this product has been carried out in accordance with GB CLP Regulation.
Eye Irrit. 2: Eye irritation, Category 2, H319

2.2. Label elements
GB CLP Regulation: Warning

Hazard statements: H319: Causes serious eye irritation.
Precautionary statements: P264: Wash thoroughly after use.
P280: Wear protective gloves/protective clothing/eye protection.
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.

2.3. Other hazards
Non-applicable

SECTION 3: Composition/Information on Ingredients

3.1. Substances
Non applicable.

3.2. Mixtures

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

Chemical name	CAS	CLP Classification	Percent
Phenol, ethoxylated	9004-78-8	Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	3-<5%
Poly(oxy-1,2-ethanediyl), amethyl- w-[3-[1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propoxy]	27306-78-1	Acute Tox. 4: H332; Aquatic Chronic 2: H411; Eye Irrit. 2: H319 - Warning	1-<3%
Alcohols, C12-15, ethoxylated (7 EO)	68131-39-5	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	1-<3%
bronopol (INN)	52-51-7	Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	<1%

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

Other information: bronopol (INN) (CAS: 52-51-7): M-factor: Acute: 10
Chronic: 1

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 MSDS of this product.

By inhalation: This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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 lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media: Non-applicable

5.2. Special hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactive subproducts 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 inflamation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders: See section 8.

6.2. Environmental precautions

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

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:
Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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.: 0ºC
Maximun Temp.: 40ºC
Maximum time: 36 Months

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.

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/m³
	WEL (15 min)	-	-
Acetic acid CAS: 64-19-7	WEL (8h)	10 ppm	25 mg/m³
	WEL (15 min)	20 ppm	50 mg/m³
propan-2-ol CAS: 67-63-0	WEL (8h)	400 ppm	999 mg/m³
	WEL (15 min)	500 ppm	1250 mg/m³

8.2. Exposure controls

General security and hygiene measures in the work place:
As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective 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: Mandatory hand protection
PPE: Chemical protective gloves (Material: Viton®-Butyl, Breakthrough time: > 480 min, Thickness: 0.7 mm)
Remarks: Replace the gloves at any sign of deterioration.

Ocular and facial protection:	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.
Body 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 shower Standards: ANSI Z358-1; ISO 3864-1:2011, ISO 3864-4:2011 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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state at 20 ºC:	Liquid
Appearance:	Characteristic
Colour:	White
Odour:	Characteristic
Vapour pressure at 50 ºC:	12372.84 Pa (12.37 kPa)
Density at 20 ºC:	1020 - 1040 kg/m³
Relative density at 20 ºC:	1.02 - 1.04
pH:	6 - 8
Solubility properties:	Miscible

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

Not applicable

10.5. Incompatible materials

Avoid strong acids. 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 recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure.

Ingestion (acute effect): Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption.
Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect.

Inhalation (acute effect): Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation.
Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation.

Contact with the skin and the eyes (acute effect):
Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact.
Contact with the eyes: Produces eye damage after contact.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
Carcinogenicity: Based on available data, the classification criteria are not met.
IARC: propan-2-ol (3)
Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

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

Specific target organ toxicity (STOT) - single exposure:
Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation.

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

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

Other information: Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Alcohols, C12-15, ethoxylated (7 EO) CAS: 68131-39-5	LD50 oral	300 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	-
	LC50 inhalation	>20 mg/L (4 h)	-
Poly(oxy-1,2-ethanediyl), amethyl- w-[3-[1,3,3,3- tetra-methyl-1- [(trimethylsilyl)oxy]disiloxanyl] propoxy] CAS: 27306-78-1	LD50 oral	>5000 mg/kg	-
	LD50 dermal	>5000 mg/kg	-
	LC50 inhalation	11 mg/L (4 h) (ATEi)	-

Phenol, ethoxylated CAS: 9004-78-8	LD50 oral	>5000 mg/kg	-
	LD50 dermal	>5000 mg/kg	-
	LC50 inhalation	>5 mg/L (4 h)	-
Bronopol (INN) CAS: 52-51-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1600 mg/kg	Rabbit
	LC50 inhalation	>5 mg/L	-

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	23076.92 mg/kg (Calculation method)	0%
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	541.13 mg/L (4 h) (Calculation method)	0%

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity:

Identification	Acute toxicity		Specie	Genus
Poly(oxy-1,2-ethanediyl), amethyl- w-[3-[1,3,3,3- tetrame-thyl-1- [(trimethylsilyl)oxy]disiloxanyl] propoxy] CAS: 27306-78-1	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L (48 h)		Crustacean
	EC50	1 - 10 mg/L (72 h)		Algae
Alcohols, C12-15, ethoxylated (7 EO) CAS: 68131-39-5	LC50	>10 - 100 (96 h)		Fish
	EC50	>10 - 100 (48 h)		Crustacean
	EC50	>10 - 100 (72 h)		Algae
Bronopol (INN) CAS: 52-51-7	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L (48 h)		Crustacean
	EC50	0.1 - 1 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Alcohols, C12-15, ethoxylated (7 EO) CAS: 68131-39-5	NOEC	0.16 mg/L	Lepomis macrochirus	Fish
	NOEC	0.77 mg/L	Daphnia magna	Crustacean
Bronopol (INN) CAS: 52-51-7	NOEC	21.5 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.27 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
Bronopol (INN) CAS: 52-51-7	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0%

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
Bronopol (INN) CAS: 52-51-7	BCF	0.6
	Pow Log	-0.64
	Potential	Low

12.4. Mobility in soil
Not available.

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

SECTION 14: Transport Information

This product is not regulated 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.

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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.

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