

Magnum Citrique

Material Safety Data Sheet

Issue: 02 - Oct 2014

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

1.1 Product Identifier Magnum Citrique

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

Classification Regulation (EC) N°1272/2008:

CAUTION: GHS07 – Skin sensitisation, Category 1
Skin sens. Cat.1 – H317: may cause an allergenic skin reaction.
Eye Irrit. Cat.2A – H319: Causes serious eye irritation.
Inh. Cat. 4 – H332: Harmful if inhaled.

2.2. Label elements

Labelling – REGULATION (EC) N° 1272/2008:

Warning



Hazard indications: H317: may cause an allergenic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.

Cautionary advice: P280 Wear protective gloves/protective clothing, eye protection/face protection.
P261A Avoid breathing vapours.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Dispose of the contents/containers in accordance with the current legislation on waste treatment.

2.3. Other hazards

Non-applicable

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SECTION 3: Composition/Information on Ingredients

Chemical Characteristics:

Dangerous Components	Concentration Range % (w/w)	CAS No.	Index	Classification Dir. 1999/45/EC	Classification EU Reg. 1272/2008
Hydrocarbons aromatic	10% \geq Cn \geq 20%	-	N.A.	Xi ; R22, R37/38, R41	Oral. 4 ; H302 Skin Irrit. 2; H315 Eye Dam. 1 ; H318
Alcohol Ethoxylate	5% \geq Cn \geq 10%	68131-40-8	N.A.	Xi; R38, R41 R20/21/22	Oral. 4 ; H302 Inhalation, 4 ; H332 Skin Irrit. 2; H315 Eye Dam. 1 ; H318
Orange terpenes	2.5% \geq Cn \geq 10%	8028-48-6	01-2119493353-35-0008	R10 Xi; R36, R38 R43 N; R50/53	Flam Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

General measures:	Remove affected person from work zone. Move to well-ventilated area and protect against hypothermia. Do not administer anything orally and do not induce vomiting. Seek medical attention or contact poisoning centre.
Inhalation:	In case of inhalation move the victim to fresh air. Seek medical advice if symptoms develop.
Eye contact:	In case of contact with eyes, separate eyelids with fingers and rinse immediately with plenty of water for 15-20 minutes: do not forget to remove contact lens. Seek medical advice if symptoms develop.
Skin contact:	Remove contaminated clothing. Wash immediately with plenty of water for 15-20 minutes. Seek medical advice if needed.
Ingestion:	If swallowed, wash mouth with water provided the victim is conscious. Seek medical advice if symptoms develop. Do not induce vomiting.

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

Inhalation:	Slight irritation.
Eye and skin contact:	Eye irritation. Possible skin sensitization.
Ingestion:	None.

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

Non-applicable

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Use dry chemical foam or carbon dioxide. Use water to cool containers exposed to fire. No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion (carbon and sulphur oxides (CO, CO₂, SO_x)). Use self-contained breathing apparatus and completely protective clothes.

5.3. Advice for fire-fighters

Evacuate all persons from the fire site. Fight fire from a protected location. Use water spray to cool containers exposed to fire. Keep adequate measures to prevent environmental contamination. Dike fire control water for later disposal according to local laws. Depending on fire location it is preferable not to use water to prevent the risk of environmental contamination; if not possible use spray water consciously.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid eye and skin contact. Use adequate protective clothes, gloves and protective mask with vapour filter. Isolate the spill area and limit the access to essential personnel. Eliminate any possible ignition source. Avoid contact or inhalation of product. Ventilate the confined space before entry.

6.2. Environmental precautions

Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Prevent dispersion of spills. Block the leakage if this does not present a risk. If the product has contaminated bodies of water or soil or vegetation, alert the local authorities.

6.3. Methods and material for containment and cleaning up

Cover the entire spill with absorbing material, such as clay, soil or any commercially available absorbent, collect it, avoiding producing dust, and place it in an appropriate container for later disposal. Avoid the use of water for cleaning up.

6.4. Reference to other sections

Non-applicable.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Use adequate protective equipment to avoid direct contact of the product. Handle product in well ventilated areas, if possible with emergency shower/eye wash. Do not smoke, drink or eat while handling the product. After handling wash thoroughly with soap and water. Remove contaminated clothing and wash after use. Keep personal protective equipment separate from other laundry; wash it separately. Do not handle damaged packages without adequate protective devices. Food personal hygiene is required. Keep the container tightly closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product only in the original container, tightly closed and labelled. Store in a fresh, dry and well ventilated place, protect from sunlight, heat and humidity. Avoid temperatures below 0°C and above 35 °C. Do not store near flame and heat sources. Keep away from food, drink and animal feedstuffs. Keep children and the public away from the storage area.

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

Exposure limit values: Not relevant

8.2. Exposure controls

General: When using do not eat, drink or smoke. Do not breathe vapour/spray. Avoid contact with skin and eyes.

Respiratory protection: Because of the low volatility and toxicity of this product, respiratory protection is not typically necessary. If significant vapors are generated, use either a chemical cartridge respirator or supplied air.

Eye protection: Safety glasses that assure complete shielding of eyes.

Skin protection: Wear suitable impermeable gloves. Wear long-sleeved shirt, long pants, shoes, and socks.

Environmental: Avoid spillage. Keep the product in proper storage conditions. Keep containers closed.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Blue/green liquid

Odour: Citrus-like

pH (at 20°C): 7.5

Melting point/freezing point: N.A./-3°C

Flash Point: >93°C

Relative density (g/cm³): 1.019 at 20°C

Solubility: Complete in water.

Auto ignition temperature: >448°C

Viscosity: 103.5 and 11.9 mPa/s at 20°C
75.9 and 80.9 mPa/s at 40°C

Explosive properties: Not explosive (H₂O > 60%)

Oxidizing properties: Not oxidising

9.2. Other information

Dilution stability: No separated material was noted on the test solution at 0.4% w/v, in Standard Water D after standing for 48 hours at 20 +/- 2°C. The test item solution remained stable.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures. No decomposition within 2 years if stored and handled properly (see Point 7).

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid storage in moist or hot conditions, near to heat or ignition sources. Keep away from food, drink and open bodies of water.

10.5. Incompatible materials

Not relevant.

10.6. Hazardous decomposition products

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion (carbon and sulphur oxides (CO, CO₂, SO_x)).

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SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute Toxicity:

Exposure Route	Effects
Oral	> 5000 mg/kg (OECD 401)
Dermal	> 2000 mg/kg (OECD 402)
Inhalation	1.51 mg/L of air (OECD 403)
Skin irritation	Non irritant to skin (OECD 404)
Eye irritation	Irritant for eyes (OECD 405) – Opacity cornea = 1 reversible in 14 days
Sensitization	Not sensitizing (Buelher test). May have sensitizing properties.

SECTION 12: Ecological Information

12.1. Toxicity

With the mixture:

Fish:	LC50 (Salmo gairdneri, 96 h) = 47.9 mg/l with a NOEC = 15.6 mg/l (OECD 203)
Invertebrate:	EC50 (Daphnia magna, 48 h) = 22.3 mg/l with a NOEC = 9.33 mg/l (OECD 202)
Algae:	ECb50 (Selenastrum capricornutum, 72 h) = 40.4 mg/l with a NOEC = 11.9 mg/l (OECD 201)

12.2. Persistence and degradability

Alcohol ethoxylate:

OECD biodegradation tests:

Biodegradation	Exposure time	Method	10 day Window
> 60%	28 days	OECD 301F	Not applicable

Theoretical oxygen demand: 2.10 mg/mg.

Orange terpenes:	Henry's law constant:	1580-1875 Pa.m ³ at 20°C (terpenes).
	High volatilization:	90% dissipation after 3 hours, no detection after 1 day.

Citrique (for information only, test on the mixture):

Readily biodegraded: >90% after 14 days; >95% after 28 days (OECD 302B)

12.3. Bioaccumulative potential

Alcohol ethoxylate:	BCF = 29
	Log Pow = 2.72
Orange terpenes:	BCF = 246
	Log Pow = 5.3

12.4. Mobility in soil

Due to a high volatilisation potential, no leaching to ground water.

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

Not described



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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Material:	As a liquid waste, this product should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. Follow local regulations.
Packaging:	Containers should be disposed of by rinsing thoroughly and then offering for recycling or reconditioning or puncture and dispose of in a sanitary landfill. Follow local regulations.
Regulations:	Follow national regulation for waste treatment.

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

67/548/EEC:	Council Directive on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances. (DSD)
1999/45/EEC:	Directive of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations. (DPD)
648/2004/EEC:	Directive of the European Parliament and of the Council of March 31st, 2004 concerning detergents.
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.

15.2. Chemical Safety Assessment

No chemical safety assessment was carried out for the mixture.

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 2 10/14 GCL