



# **Material Safety Data Sheet**

Issue: 02 - Jan 2015

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

1.1 Product Identifier Opal Green

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

Relevant uses: Cleaner. 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

Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK. Company:

Phone: +44 (0) 1189 710 995 Email: growth@indigrow.com

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

SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) nº1907/2006 (REACH regulation).

C: R35 - Causes severe burns

N: R50 - Very toxic to aquatic organisms

Xn: R22 - Harmful if swallowed

#### CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1

Eye Dam. 1: Serious eye damage, Category 1 Skin Corr. 1B: Skin corrosion, Category 1B

#### 2.2. Label elements

CLP Regulation (EC) nº 1272/2008:

Danger







Hazard indications: Acute Tox. 4: H302 - Harmful if swallowed

Aquatic Acute 1: H400 - Very toxic to aquatic life

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Cautionary advice: P273: Avoid release to the environment

> P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing

P310: Immediately call a POISON CENTER or doctor/physician

P363: Wash contaminated clothing before reuse

Supplementary information: Non-applicable

### 2.3. Other hazards

Non-applicable





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#### SECTION 3: Composition/Information on Ingredients

Chemical description: Miscellaneous products

Components: In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

Identification	Chemical Name/Classifi	cation		Concentration
CAS: 506-89-8	Urea hydrochloride		(Self-classified)	25-<50%
EC: 208-059-6 Index: Non-applicable REACH: Non-applicable	Directive 67/548/EC	C: R34; Xn: R22	4	
	Regulation 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314 - Dang	ger 🚺 📀	
CAS: 854409-22-9 EC: 287-089-1	Quaternary ammonium benzyl-C12-14-alkyldim		(Self-classified)	2.5-<5%
Index: Non-applicable REACH: Non-applicable	Directive 67/548/EC	C: R34; N: R50; Xn: R22	<u> </u>	
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Skin Corr. 1B: H314 - Danger		

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

#### SECTION 4: First-Aid Measures

# 4.1. Description of first aid measures

Request medical assistance immediately, showing the MSDS of this product.

This product does not contain substances classified as dangerous for inhalation, however, in By inhalation:

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: Remove contaminated clothing and footwear, rinse skin or shower the person affected if

> appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst

as this will increase the risk of infection.

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person By eye contact:

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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the

By consumption: Request immediate medical assistance, showing the MSDS of this product. Do not induce

vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

## 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





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SECTION 5: Fire-Fighting Measures

#### 5.1. Extinguishing media

Product is non-flammable under normal conditions of storage, manipulation and use. 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. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

#### 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 individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## **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

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.

## 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.





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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, manipulation 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:

Due to the danger of this product for the environment it is recommended to used it within an rea containing contamination control barriers in case of spillage, as well as having absorbent

material in close proximity.

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

Minimum Temp.: 0°C Technical measures for storage:

> Maximun Temp.: 40°C Maximum time: 24 Months

General conditions for storage: Avoid sources of heat, radiation, static electricity and contact with food

### 7.3. Specific end use(s)

Biocidal Prodcuts (e.g. Disinfectants)

SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment. There are no environmental limits for the substances contained in the product.

DNEL (Workers): Non-applicable DNEL (Population): Non-applicable PNEC: Non-applicable

## 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.

The use of protection equipment will be necessary if a mist forms or if the professional Respiratory protection:

exposure limits are exceeded.

Specific protection for the hands: PPE: NON-disposable chemical protective gloves

Labelling: CE CAT III

EN 374-1:2003; EN 374-3:2003/AC:2006; EN 420:2003+A1:2009 CEN Standard: The Breakthrough Time indicated by the manufacturer must exceed the Remarks:

period during which the product is being used. Do not use protective creams

after the product has come into contact with skin.





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Ocular and facial protection: PPE: Face mask

Labelling: CE CAT II

EN 166:2001; EN 167:2001; EN 168:2001; EN 172:1994/A1:2000; CEN Standard:

EN 172:1994/A2:2001; EN ISO 4007:2012

Clean daily and disinfect periodically according to the manufacturer's Remarks:

instructions. Use if there is a risk of splashing.

Bodily protection: PPE: Disposable clothing for protection against chemical risks

> Labelling: CE CAT III

EN 13034:2005+A1:2009; EN 168:2001; EN ISO 13982-1:2004/A1:2010; CEN Standard:

EN ISO 6529:2001; EN ISO 6530:2005; EN 464:1994

Remarks: For professional use only. Clean periodically according to the manufacturer's

instructions.

PPE: Safety footwear for protection against chemical risk

Labelling: CE CAT III

CEN Standard: EN ISO 20345:2011; EN 13832-1:2006; EN ISO 20344:2011

Remarks: Replace boots at any sign of deterioration.

Additional emergency measures: Emergency measure: **Emergency shower** 

ANSI Z358-1; ISO 3864-1:2002 Standards:

Emergency measure: Eyewash stations

Standards: DIN 12 899; ISO 3864-1:2002

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

Appearance: Physical state at 20 °C: Liquid

> Appearance: Characteristic Colour: Colourless Odor: Characteristic

Product description: Density at 20°C: 1150 - 1170 kg/m3 (ISO 649-2)

Relative density at 20°C: 1.15-1.17 0 - 1

pH: Flash Point: Non Flammable (>60°C)

9.2. Other information

Flammability:

Surface tension at 20 °C: Non-applicable Refraction index: 50 - 54

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.





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#### 10.4. Conditions to avoid

Applicable for handling and storage at room temperature:

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

10.5. Incompatible materials

Not applicable Acids: Water: Not applicable Combustive materials: Precaution Combustible materials: Not applicable OtherS: Not applicable

#### 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

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

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: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For

more information on the secondary effects of contact with the skin see section 2.

Inhalation: Prolonged inhalation of the product is corrosive to mucous membranes and the upper

respiratory tract.

Contact with the skin and the eyes: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in

burns. For more information on the secondary effects see section 2.

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Based on available data, the classification criteria are not met, as it does not contain substances

classified as dangerous for the effects mentioned. For more information see section 3.

Sensitizing effects: Based on available data, the classification criteria are not met, as it does not contain substances

classified as dangerous with sensibilizing effects. For more information see section 3.

Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances

classified as dangerous for this effect. For more information see section 3.

Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances

classified as dangerous for this effect. For more information see section 3.

Based on available data, the classification criteria are not met, as it does not contain substances Aspiration hazard:

classified as dangerous for this effect. For more information see section 3.





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Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides	LD50 oral	334 mg/kg	Rat
CAS: 85409-22-9	LD50 dermal	Non-applicable	
EC: 287-089-1	LC50 inhalation	Non-applicable	
Urea hydrochloride	LD50 oral	1150 mg/kg	Rat
CAS: 506-89-8	LD50 dermal	Non-applicable	
EC: 208-059-6	LC50 inhalation	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		Specie	Genus
Quaternary ammonium compounds,	LD50	Non-applicable		
benzyl-C12-14-alkyldimethyl, chlorides CAS: 85409-22-9	EC50	0.016 mg/L (48 h)	Daphnia magna	Crustacean
EC: 287-089-1	EC50	Non-applicable		

## 12.2. Persistence and degradability

Not available

# 12.3. Bioaccumulative potential

Not available

# 12.4. Mobility in soil

Not available

#### 12.5. Results of PBT and vPvB assessment

Not available

# 12.6. Other adverse effects

Not described

## **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Code	Description	Waste class (Directive 2008/98/EC)
07 04 04*	Other organic solvents, washing liquids and mother liquors	Dangerous

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) 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 Regulation (EC) no1907/2006 (REACH) the community or state provisions related to waste management are stated.

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: Transport Information

Transport of dangerous goods by land: With regard to ADR 2013 and RID 2013:

14.1 UN Number:

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Urea hydrochloride)

14.3 Transport hazard class(es): Labels: 8 14.4 Packing group: II

14.5 Dangerous for the environment: Yes 14.6 Special precautions for user: 274 Special Regulations:

Tunnel restriction code: Ε

> see section 9 Physico-Chemical properties:

Limited quantities: 1 I

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by sea: With regard to IMDG 36-12:

14.1 UN Number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Urea hydrochloride)

8

Non-applicable

14.3 Transport hazard class(es): Labels:

14.4 Packing group: ΙΙ 14.5 Dangerous for the environment: Yes

14.6 Special precautions for user: 274,944 Special Regulations: EmS Codes: F-A, S-B

Physico-Chemical properties: see section 9

Limited quantities: 1 L

14.7 Transport in bulk according to Annex II Non-applicable of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by air: With regard to IATA/ICAO 2014:

14.1 UN Number: UN1903

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Urea hydrochloride) 14.2 UN proper shipping name:

8

ΙΙ

14.3 Transport hazard class(es): Labels: 14.4 Packing group: 14.5 Dangerous for the environment:

Yes 14.6 Special precautions for user: Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II Non-applicable

of MARPOL 73/78 and the IBC Code:





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SECTION 15: Regulatory Information

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides (excluded for the product type 5, 6, 7, 8, 9, 13, 16, 17, 18, 19, 21) Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Regulation (EC) nº648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) nº648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation: Non-applicable

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII

Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant

### 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.

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