

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

**1.1 Product Identifier** Optik Isolator OneShot

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

Relevant uses: Water treatment. 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**

Directive 67/548/EC and Directive 1999/45/EC:  
 In accordance with Directive 67/548/EC and Directive 1999/45/EC, the product is not classified as dangerous.

CLP Regulation (EC) n° 1272/2008:  
 The product is not classified as dangerous according to CLP Regulation (EC) n° 1272/2008.

**2.2. Label elements**

CLP Regulation (EC) n° 1272/2008:  
 Hazard statements: Non-applicable  
 Precautionary statements: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Supplementary information: 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: Miscellaneous products  
 Components: In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical Name/Classification		Concentration
CAS: 7664-38-2	Phosphoric Acid (ATP CLP00)		1-<3%
EC: 231-633-2	Directive 67/548/EC	C: R34 	
Index: 015-011-00-6	Regulation 1272/2008	Skin Corr. 1B: H314 - Danger 	
REACH: 01-2119485924-24			

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

## 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 shower the person affected if necessary 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, as 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 consumption:	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

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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 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 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 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. 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

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

#### 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, 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:

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.: 0°C  
Maximum Temp.: 40°C  
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 work environment (EH40/2005 Workplace exposure limits):

Identification	Environmental Limits	
Phosphoric Acid CAS: 7664-38-2 EC: 231-633-2	WEL (8h)	1 mg/m <sup>3</sup>
	WEL (15min)	2 mg/m <sup>3</sup>
	Year	2015

**DNEL (Workers):**

Identification		Short Exposure		Long Exposure	
		Systemic	Local	Systemic	Local
Phosphoric Acid CAS: 7664-38-2 EC: 231-633-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	2 mg/m <sup>3</sup>	Non-applicable	1 mg/m <sup>3</sup>

**DNEL (General Population):**

Identification		Short Exposure		Long Exposure	
		Systemic	Local	Systemic	Local
Phosphoric Acid CAS: 7664-38-2 EC: 231-633-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	0.73 mg/m <sup>3</sup>

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.

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: Non-applicable

Ocular and facial protection: Non-applicable

Bodily protection: Non-applicable

Additional emergency measures: It is not necessary to take additional emergency measures.

Environmental exposure controls: This product does not contain substances dangerous to the environment, although it is recommended not to spill it. For additional information see subsection 7.1.D

Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight  
V.O.C. density at 20°C: 0 kg/m<sup>3</sup> (0 g/L)  
Average carbon number: 2  
Average molecular weight: 60.1 g/mol

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C:	Liquid	pH:	2 - 3
Appearance:	Characteristic	Solubility property:	Completely miscible
Colour:	Colourless	Flash Point:	Non Flammable (>60°C)
Odor:	Characteristic	Autoignition temperature:	421 °C
Boiling point at atmospheric pressure:	100 °C		
Density at 20°C:	1010 - 1030 kg/m <sup>3</sup>		
Relative density at 20°C:	1.01-1.03		

#### 9.2. Other information

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

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#### SECTION 10: Stability and Reactivity

##### 10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. 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:	Not applicable
Sunlight:	Not applicable
Humidity:	Not applicable

##### 10.5. Incompatible materials

Acids:	Not applicable
Water:	Not applicable
Combustive materials:	Precaution
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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

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#### 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:	Based on available data, the classification criteria are not met
Inhalation:	Based on available data, the classification criteria are not met
Contact with the skin and 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:	Based on available data, the classification criteria are not met
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
Phosphoric Acid CAS: 7664-38-2 EC: 231-633-2	LD50 Oral	3500 mg/kg	Rat
	LD50 Dermal	2470 mg/kg	Rabbit
	LC50 Inhalation	Non-applicable	

## SECTION 12: Ecological Information

### 12.1. Toxicity

Identification	Acute Toxicity		Species	Genus
Phosphoric Acid CAS: 7664-38-2 EC: 231-633-2	LC50	Non-applicable		
	EC50	4.6 mg/L (12 h)	Daphnia magna	Crustacean
	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)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non dangerous

Type of waste (Regulation (EU) No 1357/2014): Non-applicable

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.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated.

Community legislation:

Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

#### SECTION 14: Transport Information

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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#### SECTION 15: Regulatory Information

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains Bronopol (INN).

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885

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

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

##### 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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