# SAFETY DATA SHEET HOKOEX®

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name	HOKOEX®			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Identified uses	Biocidal products (e.g. disinfectants, pest control).			
1.3. Details of the supplier of the safety data sheet				
<u>Supplier</u>	Hockley International Ltd Hockley House 3 Longstone Road Ashbrook Office Park Manchester M22 5LB TEL: +44 (0) 161 209 7400 FAX: +44 (0) 161 209 7401 sds@hockley.co.uk			
1.4. Emergency telephone number				
+44 (0) 161 209 7400 9am - 5pm GMT				
SECTION 2: HAZARDS IDENTIFICATION				
2.1. Classification of the substance or mixture				
Classification (1999/45/EEC) 2.2. Label elements	Not classified.			

<u>Risk Phrases</u>		
	NC	Not classified.
Safety Phrases		
	S2	Keep out of the reach of children.
	S7/8	Keep container tightly closed and dry.
	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using do not eat, drink or smoke.
	S47	Keep at temperature not exceeding 30°C.
0.0. Other herende		

# 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2. Mixtures

N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE			2% min
CAS-No.:	EC No.:		
Classification (EC 1272/2008) Aquatic Chronic 2 - H411		Classification (67/548/EEC) Not classified.	
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.			

# SECTION 4: FIRST AID MEASURES

HOKOEX®

## 4.1. Description of first aid measures

#### General information

Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! Place unconscious person on the side in the recovery position and ensure breathing can take place.

### Inhalation

Move the exposed person to fresh air at once. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration.

# Ingestion

Rinse mouth thoroughly. Get medical attention immediately! If breathing stops, provide artificial respiration.

### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Inhalation. No data available. Ingestion No data available. <u>Skin contact</u> No data available. <u>Eve contact</u> No data available.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

Specific hazards

Dike and collect extinguishing water. Avoid releasing to the environment. Do not discharge into drains, water courses or onto the ground.

#### 5.3. Advice for firefighters

Special Fire Fighting Procedures

In case of fire and/or explosion do not breathe fumes

Protective equipment for fire-fighters

Wear full protective clothing (EN 469). Self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary.

#### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Stop leak if possible without risk.

### 6.3. Methods and material for containment and cleaning up

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. This material and its container must be disposed of as hazardous waste.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

# SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Handle and open container with care. Wear protective clothing as described in Section 8 of this safety data sheet. Do not release into the environment. Do not allow to enter drains, sewers or watercourses. Do not eat, drink or smoke when using the product. Wash hands after handling. Remove contaminated clothing. Wash contaminated clothing before reuse.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials listed in section 10 of this safety data sheet. Keep out of the reach of children.

## 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

#### 8.2. Exposure controls

Engineering measures Provide adequate ventilation. Respiratory equipment If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with particle filter, type P1. (EN 140/143) Hand protection Wear protective gloves (EN 374). Eye protection Avoid contact with eyes. Wear approved safety goggles (EN 166). Other Protection Wear appropriate clothing to prevent any possibility of skin contact. Hygiene measures No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Thermal hazards No data available. Environmental Exposure Controls Do not release into the environment

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<u>Appearance</u>	Granular
Colour	White / off-white.
<u>Odour</u>	No characteristic odour.
<u>Solubility</u>	Soluble in water.
Initial boiling point and boiling range	
Not available.	
Melting point (°C)	133 - 135°C
Relative density	1.335
Bulk Density	0.70 g/ml
Vapour density (air=1)	
Not available.	
Vapour pressure	
Not available.	
Evaporation rate	
Not available.	
pH-Value, Diluted Solution	7.5 @ 1%

## **HOKOEX®**

Viscosity

Not available. Solubility Value (G/100G H2O@20°C) Not available. Decomposition temperature (°C) Not available. Odour Threshold, Lower Not available. Odour Threshold, Upper Not available. Flash point Not available. Auto Ignition Temperature (°C) Not available. Flammability Limit - Lower(%) Not available. Flammability Limit - Upper(%) Not available. Partition Coefficient (N-Octanol/Water) Not relevant Explosive properties

Not available. Oxidising properties Not available. 9.2. Other information

Not available.

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available. 10.2. Chemical stability

Stable under normal temperature conditions and recommended use. 10.3. Possibility of hazardous reactions

None known. Hazardous Polymerisation Will not polymerise. 10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight. 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

# 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Toxicological information Classification according to Directive 1999/45/EC.

Acute toxicity: Acute Toxicity (Oral LD50) 5000 mg/kg Rat Based on available data the classification criteria are not met. Acute Toxicity (Dermal LD50) > 2000 mg/kg Rat Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

> 1.96 mg/l Rat 4 hours
Based on available data the classification criteria are not met.

<u>Skin Corrosion/Irritation:</u> Calculation method. Based on available data the classification criteria are not met.

<u>Serious eye damage/irritation:</u> Calculation method. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Calculation method. Based on available data the classification criteria are not met.

<u>Germ cell mutagenicity:</u> Calculation method. Based on available data the classification criteria are not met.

<u>Carcinogenicity:</u> Calculation method. Based on available data the classification criteria are not met.

Reproductive Toxicity: Calculation method. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Calculation method.

Based on available data the classification criteria are not met.

Toxicological information on ingredients.

# HOKOEX® N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

Acute toxicity: Acute Toxicity (Oral LD50) > 2000 mg/kg Rat Based on available data the classification criteria are not met. Acute Toxicity (Dermal LD50) > 2000 mg/kg Based on available data the classification criteria are not met. Acute Toxicity (Inhalation LC50) > 3.6 mg/l Rat Based on available data the classification criteria are not met. Skin Corrosion/Irritation: Erythema\eschar score Very slight erythema -barely perceptible (1). Oedema score Very slight oedema -barely perceptible (1). Based on available data the classification criteria are not met. Serious eye damage/irritation: Based on available data the classification criteria are not met. Respiratory or skin sensitisation: Respiratory sensitisation Data lacking. Skin sensitisation M & K test Guinea Pig Not Sensitising. Based on available data the classification criteria are not met. Germ cell mutagenicity: Genotoxicity - In Vitro Chromosome aberration: Negative. Genotoxicity - In Vivo Micronucleus formation Negative. Based on available data the classification criteria are not met. Carcinogenicity: **Carcinogenicity** NOAEL 156 mg/kg/day Oral Rat Based on available data the classification criteria are not met. Reproductive Toxicity: **Reproductive Toxicity - Fertility** Two-generation study: NOAEL 51 mg/kg/day Oral Rat P Reproductive Toxicity - Development Maternal toxicity: NOAEL 10 mg/kg/day Oral Rabbit No reproductive or developmental effects occurred at non-parentally toxic doses. Based on available data the classification criteria are not met. Specific target organ toxicity - single exposure: STOT - Single exposure Data lacking.

<u>Specific target organ toxicity - repeated exposure:</u> Based on available data the classification criteria are not met. Aspiration hazard:

Not relevant, due to the form of the product.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Classification according to Directive 1999/45/EC. Not classified.

Ecological information on ingredients.

#### N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

Acute Toxicity - Fish LC50 96 hours > 100 mg/l Onchorhynchus mykiss (Rainbow trout) Acute Toxicity - Aquatic Invertebrates EC50 48 hours > 100 mg/l Daphnia magna <u>Chronic Toxicity - Fish Early life Stage</u> NOEC 32 days = 14 mg/l Pimephales promelas (Fat-head Minnow) <u>Chronic Toxicity - Aquatic Invertebrates</u> NOEC 21 days = 0.31 mg/l Daphnia magna

### 12.2. Persistence and degradability

Ecological information on ingredients.

#### N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

#### Degradability

The product is not readily biodegradable. Biodegradation Soil DT50 < 56 days

### 12.3. Bioaccumulative potential

### Partition coefficient

Not relevant

Ecological information on ingredients.

#### N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating. <u>Bioaccumulation factor</u> BCF < 1 <u>Partition coefficient</u> log Pow = - 0.069

## 12.4. Mobility in soil

Ecological information on ingredients.

### N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

<u>Mobility:</u> Semi-mobile. <u>Adsorption/Desorption Coefficient</u> Soil Kfoc < 1784

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

#### N-CYCLOPROPYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

# SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

#### 13.1. Waste treatment methods

Waste is suitable for incineration. Contact specialist disposal companies. Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

# SECTION 14: TRANSPORT INFORMATION

<u>General</u>

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

No information required.

#### 14.2. UN proper shipping name

No information required.

## 14.3. Transport hazard class(es)

No information required.

#### 14.4. Packing group

No information required.

## 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

#### 14.6. Special precautions for user

No information required.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). EU Legislation

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 689/2008 concerning the export and import of dangerous chemicals. None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION** 

# HOKOEX®

#### Abbreviations and acronyms used in the safety data sheet

PBT - Persistent, bioaccumulative and toxic. vPvB - Very persistent and very bioaccumulative EN - European standard adopted by the European Committee for Standardisation.

## Information Sources

World Health Organisation (WHO)/Food and Agriculture Organisation of the United Nations (FAO) Joint Meeting on Pesticide Residues monographs and evaluations. The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database http://sitem.herts.ac.uk/aeru/iupac/index.htm Available from www.inchem.org. Conclusion regarding the peer review of the pesticide risk assessment of the active substance completed by the European Food Safety Authority - http://www.efsa.europa.eu/cs/Satellite United States National Library of Medicine Hazardous Substances Data Bank (HSDB) - http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB Supplier safety data sheet (SDS).

Revision Date	29/06/2012
Revision	2
Risk Phrases In Full	
NC	Not classified.
Hazard Statements In Full	
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.