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**MATERIAL SAFETY DATA SHEET**

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product Identifier:****ZER740 – Knockdown Mosquito Killer****1.2 Relevant uses of the substance or mixture and uses advised against:**

<b>Identified uses</b>	Pesticide
<b>Uses advised against</b>	All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

<b>Supplier:</b>	STV International Limited Forge House Little Cressingham Thetford Norfolk IP25 6ND
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**1.4 Emergency phone number:** +44 (0) 1953 881 580

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**2. HAZARDS IDENTIFICATION**

Classification (EC 1272/2008)

**Physical hazards****Health hazards**

<b>Environmental hazard</b>	Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
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**2.2 Label Elements**



GHS09

**Signal word**

**Hazard statements**

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

**Supplemental label information**

**Precautionary Statements**

P101: If medical advice is needed, have product container or label at hand  
 P102: Keep out of reach of children  
 P103: Read label before use  
 P273: Avoid release to the environment  
 P302+P352: IF ON SKIN: Wash with plenty of water  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P309+P310+P101: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician  
 P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB

**3.COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures:**

<b>2,6-di-tert-butyl-p-cresol<sup>1</sup></b>	<b>1-&lt;2,5%</b>
CAS-128-37-0	EC-204-881-4
Index – Non-applicable	REACH – 01-2119565113-46-XXXX
<b>Classification</b>	
Aquatic Acute 1: H400	
Aquatic Chronic 1 H410 – Warning	

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Prallethrin (ISO) <sup>1</sup>		1-<2,5%
CAS-23031-36-9	EC-245-387-9	
Index-607-431-00-9	REACH – Non-applicable	
<b>Classification</b>		
Acute Tox. 3: H331		
Acute Tox. 4: H302		
Aquatic Acute 1: H400		
Aquatic Chronic 1: H410 - Danger		

The full text for all hazard statements is displayed in Section 16.

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## **4.FIRST AID MEASURES**

### **4.1 Description of First aid measures**

#### **General information**

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.

#### **Inhalation**

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### **Ingestion**

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.

#### **Skin contact**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet.

#### **Eye contact**

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

#### **Protection of first aiders**

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

#### **General information**

Acute and delayed effects are indicated in sections 2 and 11.

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Inhalation

Ingestion

Skin contact

Eye contact

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

**Notes for the doctor**                      Treat symptomatically.

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### **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**

**Specific hazards**                      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.

**Hazardous combustions products**

#### **5.3 Advice for Firefighters**

**Protective actions during Firefighting**                      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.

**Special protective equipment For firefighters**                      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.

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## **6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** 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**

**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**

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

### **6.4. Reference to other sections**

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

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## **7. HANDLING AND STORAGE**

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## 7.1. Precautions for safe handling

### Usage precautions

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. 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.

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

### Advice on general

#### Occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

### Storage precautions

Minimum Temp: 5°C

Maximum Temp: 30°C

Maximum Time: 6 Months

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### Storage class

## 7.3. Specific end use(s)

### Specific end use(s)

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

### Usage description

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## 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 occupational exposure limits for the substances contained in the product

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,5 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,86 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

Identification				
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	STP	0,17 mg/L	Fresh water	0,000199 mg/L
	Soil	0,04769 mg/kg	Marine water	0,0000199 mg/L
	Intermittent	0,00199 mg/L	Sediment (Fresh water)	0,0996 mg/kg
	Oral	8,33 g/kg	Sediment (Marine water)	0,00996 mg/kg

### 8.2. Exposure controls

#### Appropriate engineering controls

#### Personal protection

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 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.

#### Eye/face protection

Panoramic glasses against splash/projections.

#### Hand protection

Protective gloves against minor risks.

#### Other skin and body

Personal protective equipment for the body should be selected based on the task being protection performed and the risks involved.

#### Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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<b>Respiratory protection</b>	No specific recommendations. Provide adequate ventilation.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Avoid release to the environment.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Appearance</b>	Fluid
<b>Colour</b>	Colourless
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	Non-applicable
<b>Ph</b>	6,8 at 1%
<b>Melting point</b>	Non-applicable
<b>Initial boiling point and range</b>	243 °C
<b>Flash point</b>	128 °C
<b>Evaporation rate</b>	Non-applicable
<b>Evaporation factor</b>	Non-applicable
<b>Flammability (solid, gas)</b>	Non-applicable
<b>Upper/lower flammability or explosive limits</b>	Non-applicable
<b>Other flammability</b>	Non-applicable
<b>Vapour pressure</b>	0 Pa at 20 °C 1 Pa at 50 °C
<b>Vapour density</b>	Non-applicable
<b>Relative density</b>	0,965 – 0,975

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<b>Bulk density</b>	961 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Non-applicable
<b>Partition coefficient</b>	Non-applicable
<b>Auto-ignition temperature</b>	Non-applicable
<b>Decomposition Temperature</b>	Non-applicable
<b>Viscosity</b>	Non-applicable
<b>Explosive properties</b>	Non-applicable
<b>Explosive under the influence of a flame</b>	Non-applicable
<b>Oxidising properties</b>	Non-applicable

## 9.2. Other information

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## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity** No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2. Chemical stability

**Stability** Chemically stable under the conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous** Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4. Conditions to avoid

**Conditions to avoid** Non-applicable

### 10.5. Incompatible materials

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**Materials to avoid** Avoid strong acids, direct impact with combustive materials, alkalis and strong bases.

## 10.6. Hazardous decomposition products

**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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## **11. TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Acute toxicity - oral**

##### **Notes (oral LD<sub>50</sub>)**

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: 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.

#### **Acute toxicity - dermal**

##### **Notes (dermal LD<sub>50</sub>)**

#### **Acute toxicity - inhalation**

##### **Notes (inhalation LC<sub>50</sub>)**

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

#### **Skin corrosion/irritation**

- Corrosivity/Irritability: 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.

#### **Serious eye damage/irritation**

##### **Serious eye damage/irritation**

- Contact with the eyes: 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.

#### **Respiratory sensitisation**

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**Respiratory sensitisation**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: 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.

**Skin sensitisation****Skin sensitisation**

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.

**Germ cell mutagenicity****Genotoxicity - in vitro**

- Mutagenicity: 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.

**Carcinogenicity****Carcinogenicity**

- Carcinogenicity: 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.

**IARC carcinogenicity****Reproductive toxicity****Reproductive toxicity - fertility**

- Reproductive toxicity: 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.

**Reproductive toxicity –  
Development****Specific target organ toxicity - single exposure****STOT - single 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 - repeated exposure****STOT - repeated exposure**

- 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.
- Skin: 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.

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### Aspiration hazard

#### Aspiration hazard

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.

### General information

#### Inhalation

#### Ingestion

#### Skin contact

#### Eye contact

#### Route of entry

### Toxicity of ingredients

Identification		Acute toxicity		Genus
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LD50 oral	10000 mg/kg		Rat
	LD50 dermal	>2000 mg/kg		
	LC50 inhalation	>5 mg/L (4 h)		
Prallethrin (ISO) CAS: 23031-36-9 EC: 245-387-9	LD50 oral	486 mg/kg		Rat
	LD50 dermal	>2000 mg/kg		
	LC50 inhalation	3 mg/L (4 h) (ATE)		

## 12.ECOLOGICAL INFORMATION

### Ecotoxicity

#### 12.1. Toxicity

Identification		Acute toxicity		Species	Genus
2,6-di-tert-butyl-p-cresol CAS: 128-37-0 EC: 204-881-4	LC50	0.57 mg/L (96 h)		Brachydanio rerio	Fish
	EC50	0.61 mg/L (48 h)		Daphnia magna	Crustacean
	EC50	Non-applicable			
Prallethrin (ISO) CAS: 23031-36-9 EC: 245-387-9	LC50	0.018 mg/L (96 h)		Brachydanio rerio	Fish
	EC50	0.019 mg/L (48 h)		Daphnia magna	Crustacean
	EC50	2.6 mg/L (72 h)		Scenedesmus subspicatus	Algae

#### 12.2. Persistence and degradability

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Identification	Degradability		Biodegradability	
2,6-di-tert-butyl-p-cresol	BOD5	Non-applicable	Concentration	50 mg/L
CAS: 128-37-0	COD	Non-applicable	Period	28 days
EC: 204-881-4	BOD5/COD	Non-applicable	% Biodegradable	4,5 %

### 12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
2,6-di-tert-butyl-p-cresol	BCF	1365
CAS: 128-37-0	Pow Log	5.1
EC: 204-881-4	Potential	Very High

### 12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
2,6-di-tert-butyl-p-cresol	Koc	8183	Henry	3,42E-1 Pa·m <sup>3</sup> /mol
CAS: 128-37-0	Conclusion		Dry soil	Yes
EC: 204-881-4	Surface tension	1,255E-2 N/m (258,85 °C)	Moist soil	Yes

### 12.5. Results of PBT and vPvB assessment

**Results** Product fails to meet PBT/vPvB criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not described

**Toxicity of ingredients**

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**General information**

**Disposal methods** Other organic solvents, washing liquids and mother liquors.

**Waste class** HP14 Ecotoxic

## 14. TRANSPORT INFORMATION

**General** The product is not covered by international regulations on the transport of dangerous goods (INDG, IATA, ADR/RID)

**14.1. UN number**

UN No UN3082

**14.2. UN proper shipping name**

UN Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert-butyl-p-cresol)

**14.3. Transport hazard class(es)**

Transport Hazard Class(es) 9

**14.4. Packing group**

III

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

Yes

**14.6. Special precautions for user**

Special Regulations: 274,335,375,601

Tunnel Restriction Code: Non-applicable

Physico-Chemical properties: see section 9

Limited Quantities: 5L

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

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

Non-applicable.

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## **15. REGULATORY INFORMATION**

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

#### **National regulations**

**EU legislation** Article 95, REGULATION (EU) No 528/2012: Prallethrin (ISO) (Product-type 18)

### **15.2. Chemical safety assessment**

**Chemical Safety Assessment** The supplier has not carried out an evaluation of chemical safety.

#### **Inventories**

**EU - EINECS/ELINCS**  
**EU Legislation**

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## **16. OTHER INFORMATION**

### **Abbreviations and acronyms used**

#### **In the safety data sheet**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol–water partition coefficient  
Koc: Partition coefficient of organic carbon

#### **Classification abbreviations and acronyms**

Acute Tox. 3: H331 - Toxic if inhaled  
Acute Tox. 4: H302 - Harmful if swallowed  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects  
H411: Toxic to aquatic life with long lasting effects

#### **Classification procedures according to Regulation (EC)**

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**1272/2008**

**Revision date** 23/11/2017  
**Revision** 1

**Hazard statements in full****Exclusion of liability:**

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