

## **PRODUCT SAFETY DATA SHEET**

### **ZIGZAG®**

**1. Identification of the Preparation and the Company:**

Trade name: ZIGZAG

A adjuvant for use with pesticides and micronutrients in agriculture, horticulture and forestry.

**Company Identification:**

Headland Agrochemicals Ltd., Rectors Lane, Pentre, Deeside, Flintshire CH5 2DH.

Telephone 01244 537370; Fax 01244 532097; e-mail [enquiry@headlandgroup.com](mailto:enquiry@headlandgroup.com)

**2. Hazards:**

Risk of serious damage to eyes. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Classification: Xi, R41; R52/53.

**3. Composition:**

A water-soluble concentrate containing synthetic latex and polyether-modified trisiloxane

**Hazardous components:**

Polyether-modified trisiloxane < 10% w/w

CAS No. 134180-76-0

Hazard symbol	Harmful Xn, Dangerous for the Environment N
Risk phrases	R20/21 Harmful by inhalation and in contact with skin
	R38 Irritating to skin
	R41 Risk of serious damage to eyes
	R51 Toxic to aquatic organisms
	R53 May cause long-term adverse effects in the aquatic environment

Monoethylene glycol >10% w/w

CAS No 107-21-1

Hazard Symbol	Harmful Xn
Risk phrases	R22 Harmful if swallowed

Ethoxy-7-tridecanol < 5% w/w

CAS No. 78330-21-9

Hazard Symbol	Harmful Xn
Risk phrases	R22 Harmful if swallowed
	R41 Risk of serious damage to eyes

**4. First Aid Measures:**

- Eyes: Irrigate with clean water for at least 15 minutes and seek medical attention without delay.
- Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if any irritation or redness persists.
- Ingestion: If swallowed wash out mouth with water and seek medical attention. Do not induce vomiting.
- Inhalation: Remove from exposure and provide maximum ventilation
- Guide to  
Doctors There is no specific antidote for exposure to this product. Treatment should be symptomatic and supportive.

**5. Fire Fighting Measures**

This product will not burn. If involved in a fire, fumes and vapours may be harmful and may include carbon monoxide, carbon dioxide and silicon compounds. Fire fighters should wear breathing apparatus.

Extinguishing media: Use dry chemical, foam, water spray, sand or earth but avoid high pressure water jets if possible.

Prevent entry of the product or contaminated water into watercourses ditches or drains by bunding the area with sand or earth if possible.

**6. Accidental Release (Spillage)**

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Keep bystanders away. Absorb spillage with inert material (e.g. sand or earth), shovel or sweep up and transfer to a labelled container for later removal to a safe place for disposal. Wash down the area with plenty of water when all traces of the spill have been removed.

Prevent the spillage from entering watercourses sewers or drains by bunding if necessary. Inform the authorities immediately if contamination of waterways, sewers or drains is threatened or occurs.

**7. Storage and Handling**

Wash all protective clothing thoroughly after use especially the insides of gloves. Wash hands and exposed skin before meals and after work. Keep in original container, tightly closed. Keep cool and dry in a suitable agricultural chemical store away from food, drink and animal feedingstuffs and out of reach of children. Protect from frost.

**8. Personal Protection**

Wear suitable protective gloves and face-shield to BS2092 when handling the concentrated product. Avoid breathing the spray mist when using. Decontaminate all personal protective equipment after use.

Occupational Exposure Limits:       None applicable

**9. Physical and Chemical Properties**

Appearance:               A white mobile liquid  
Odour:                     Characteristic mild aromatic chemical odour  
Solubility:                Completely miscible in water  
Specific Gravity:         1.032  
Viscosity:                430 mPa  
pH:                        6.71  
Flashpoint:               Will not burn

**10. Stability and Reactivity**

Stability: Stable at ambient temperatures. Expected to store for at least 2 years in original containers in normal agricultural chemical storage conditions.

**11. Toxicological Information**

**Acute Toxicity:**

Acute oral LD50:               >2,000 mg/kg.bw (by calculation)  
Acute dermal LD50:            >4,000 mg/kg.bw (by calculation)  
Irritancy:                    Risk of serious damage to eyes  
Skin sensitisation:            Not determined. Not expected to be a sensitiser

**Chronic toxicity**                No information.

**12. Environmental Protection**

This product is harmful to aquatic organisms. It may cause long-term adverse effects in the aquatic environment. Do not contaminate surface waters or ditches with chemical or used container. Avoid contamination of water by spray drift.

**13. Disposal of Unwanted Product and Used Containers**

Consult the local authorities before disposing of unwanted chemical. Triple-rinse and puncture used containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

**14. Transport Information**

Road Transport:                Not classified  
UN Number:                    None  
Proper Shipping Name:         None  
CPL Packing Group:            None  
ADR/RID Description:         None  
IMDG Class:                    Not classified

**15. Regulatory Information**

Hazard symbol:	Irritant Xi
Risk phrases:	R41 Risk of serious damage to eyes
	R52 Harmful to aquatic organisms
	R53 May cause long-term adverse effects in the aquatic environment.
Safety Phrases:	S2 Keep out of reach of children
	S24 Avoid contact with eyes
	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S39 Wear eye /face protection
	S57 Use appropriate containment to avoid environmental contamination

**16. Other Information**

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Zigzag is a registered trademark.

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