

## PRODUCT SAFETY DATA SHEET

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

**Trade Name:** HEADLAND RHINO

**Function:** A trisiloxane adjuvant for use in agriculture and horticulture

**Marketed by:**

Headland Agrochemicals Ltd.  
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**2. Composition:**

A liquid concentrate containing 85% polyalkylene oxide modified heptamethyl tri-siloxane. CAS No. 134180-76-0

**3. Hazards:**

HARMFUL by inhalation and in contact with skin

IRRITATING to skin

RISK OF SERIOUS DAMAGE TO EYES

TOXIC TO AQUATIC ORGANISMS. May cause long-term adverse effects in the aquatic environment.

**4. First Aid Measures:**

**Eyes:** Irrigate with clean water for at least 15 minutes. 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, do not induce vomiting. Seek medical advice immediately

**Inhalation:** Remove from exposure and provide maximum ventilation. Seek medical advice if any symptoms develop.

**Page 2 of 4****5. Fire Fighting Measures**

Headland Rhino will burn. If involved in a fire, fumes and vapours may be harmful and include carbon monoxide, carbon dioxide and silicon dioxide. Fire fighters should wear breathing apparatus.

Use dry chemical, foam, water spray, sand or earth. Avoid contamination of surface waters or ditches with fire-fighting water.

**6. † Accidental Release (Spillage)**

Wear suitable protective clothing (see Section 8 below). Absorb the spillage with sand, earth etc., shovel up and transfer to a labelled container for later removal to a safe place for disposal.

Flush the area with plenty of water when all the spillage has been removed.

Prevent the spillage from entering watercourses sewers or drains. Inform the authorities if contamination of water is threatened or occurs.

**7. Storage and Handling**

Keep in original container, tightly closed.

Keep cool and dry in a suitable chemical store, out of direct sunlight and away from direct sources of heat.

Keep away from food, drink and animal feedingstuffs and out of reach of children

Do not allow to freeze. Store above 5°C.

**8. Personal Protection**

Wear suitable protective clothing, gloves, face-shield and respiratory protection\* when handling the concentrated product. Avoid breathing the spray mist when using.

\* If ventilation is poor or vapours are present, use filter A-P2.

**9. Physical and Chemical Properties**

Appearance: a mobile pale yellow liquid with a mild chemical odour.

Specific Gravity: 1.02

Ph: 8 at (40 g/l solution)

Flashpoint: 102°C (By DIN EN 22719 (Din 51758))

Viscosity: 100 mPas approx.

**10. Stability and Reactivity**

Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Readily disperses in water.

**11. Toxicological Information**

This product is moderately toxic.

Acute oral LD50: 3200 mg/kg.bw (rat)

Acute dermal LD50: 1550 mg/kg.bw (rabbit)

Acute inhalation LC50: 1.08 mg/ltr over 4 hours (rat)

Skin irritancy: Mildly irritant. Non-sensitising.

Eye irritancy: May cause serious damage to eyes

**12. Environmental Protection**

|                        |   |
|------------------------|---|
| Acute LC50 to fish:    | 2.1 mg/l (Rainbow trout)  |
| Acute EC50 to daphnia: | 1.1 mg/l (Daphnia magna)  |
| Acute EC50 to algae:   | 28.2 mg/l (Scenedesmus spp) – biomass<br>152.2 mg/l (Scenedesmus spp) – growth rate |

Headland Rhino is harmful to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used containers. Do not use with pesticides which are to be applied in or near water.

Persistence in the environment:

Headland Rhino will not cause disturbances of ecological systems and equilibriums when used as recommended on the product label.

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

Consult the local authorities before disposing of unwanted chemical.

Triple-rinse container and empty rinsings into spray tank.

Puncture empty rinsed containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

**14. Transport Information**

|                       |   |
|-----------------------|---|
| Road Transport:       | Class 9   |
| UN Number:            | 3082  |
| Proper Shipping Name: | Environmentally hazardous substance, liquid,<br>n.o.s. (contains polyether siloxane). |
| IMDG Class:           | Class 9   |
| CPL Group             | III   |

**15. Regulatory Information**

Risk Symbol: Harmful Xn  
Dangerous for the environment N

Risk Phrases:

|        |   |
|--------|---|
| R21/21 | Harmful in contact with skin and if swallowed   |
| R38    | Irritating to skin  |
| R41    | Risk of serious damage to eyes  |
| R51/53 | Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. |

Safety Phrases:

|           |   |
|-----------|---|
| S2        | Keep out of reach of children   |
| S24       | Avoid contact with skin   |
| S26       | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection                             |
| S51       | Only use in well-ventilated areas   |
| 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.

Headland Rhino is authorised by the UK Pesticides Safety Directorate for use as a pesticide adjuvant. Official Adjuvant List Entry No. ADJ 0328.

Headland Rhino is authorised by the Pesticide Control Service, Ireland for use as a pesticide adjuvant. Registration Number PCS 92276

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Sections amended since last issue marked † in margin.