

**SAFETY DATA SHEET****PRODUCT NAME:** HYDROZONE**PRODUCT CODE:** HYDROZONE**1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY****1.1 Product Identifier**

TRADE NAME	Hydrozone Residual Wetting Agent
OTHER NAMES	Residual Wetting Agent
CHEMICAL SYNONYMS	Mixture containing Oxirane, methyl – polymer with oxirane

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

IDENTIFIED USES	Turf Wetting Surfactant
-----------------	-------------------------

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

SUPPLIER:	GBR TECHNOLOGY LTD UNIT 42, EASTER PARK BENYON ROAD SILCHESTER BERKSHIRE RG7 2PQ Tel: 0118 9820567 Fax: 0118 9820590
-----------	---

Email address of person responsible	<a href="mailto:info@gbrtech.co.uk">info@gbrtech.co.uk</a>
-------------------------------------	--

**1.4 Emergency telephone number**

SUPPLIER:	0118 9820567
HOURS OF OPERATION:	Monday to Friday 0830 – 17:00 HRS
INFORMATION LIMITATIONS:	Not applicable

**2. HAZARD IDENTIFICATION****2.1 Classification of the substance or mixture**

PRODUCT DEFINITION:	Mixture
---------------------	---------

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]  
Not classified

2.2 Label elements:	This product does not require a hazard warning label in accordance with GHS criteria.
---------------------	---

SIGNAL WORD:	No signal word
HAZARD STATEMENTS:	No known significant effects or critical hazards

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
--

SUBSTANCE/MIXTURE: Substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]
Oxirane, methyl-, polymer with oxirane	CAS:9003-11-6	> 90	Not Classified
3-(Polyoxyethylene) Propylheptamethyl trisiloxane	CAS: 67674-67-3	< 1%	Acute Toxicity, Cat 4 H332 Serious Eye Damage, Cat.1 H318 Chronic Aquatic Toxicity, Cat 2. H411

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

- 2.2 Label Elements: This product does not require a hazard warning label in accordance with GHS criteria.
- 2.3 Other Hazards: No specific dangers known, if the regulations/notes for storage and handling are considered.

<b>4. FIRST AID MEASURES</b>
------------------------------

#### 4.1 Description of first aid measures

- Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove and contact lenses. Get medical attention if irritation occurs.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact:** Areas affected by molten material should quickly be placed under cold running water. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

No significant symptoms are expected due to the non-classification of this product.

#### Potential acute health effects

- Eye contact:** No known significant effects or critical hazards
- Inhalation:** No known significant effects or critical hazards
- Skin Contact:** No known significant effects or critical hazards
- Ingestion:** No known significant effects or critical hazards

#### Over-exposure signs/symptom:

- Eye contact:** No specific data
- Inhalation:** No specific data

Skin Contact: No specific data  
Ingestion: No specific data

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

Notes to physician: Treat symptomatically.  
Specific treatments: No specific treatment.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.  
Water spray, Foam (specifically trained personnel only), water fog (specifically trained personnel only), dry chemical powder.

Unsuitable extinguishing media: None Known

#### 5.2 Specific hazards arising from the substance or mixture

Hazards from the substance: Harmful Vapours. Evolution of fumes / fog. The substances/groups of substances mentioned can be released in case of fire.

Hazardous combustion products: None Known.

#### 5.3 Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters: Fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 with provide a basic level of protection for chemical incidents.

Additional information: Non Provided

### 6. ACCIDENTAL RELEASE MEASURES

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

Personnel: High risk of slipping due to leakage/ spillage of product. Do not walk through spilt material. Put on appropriate personal protective equipment. Use personal protective clothing. Information regarding personal protective measures see Chapter 8.

6.2 Environmental Precautions: Avoid dispersal of spilt material. Inform the relevant authorities of the product has caused environmental pollution (sewers, waterways, soil or air) Contain contaminated water. Do no discharge into drains/surface waters/groundwaters.

#### 6.3 Methods and Materials for containment and cleaning up

Spill: Stop leak if without risk. Move containers away from spill area. Contain and collect spillage with non-combustible, absorbent material e.g sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections: See Section 1 for emergency contact information.  
See section 8 for information on appropriate personal protective equipment  
See section 13 for additional waste treatment information.



Body Protection:	Personal Protective Equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other Skin Protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection:	In case of vapour/ aerosol release. Particle filter with medium efficiency for solid and liquid particles 9e.g. EN 143 or 149, Type P2 or FFP2.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical State:	Liquid
Colour:	Colourless to Yellowish
Odour:	Product Specific
Odour Threshold:	Not Available
pH:	Approx. 7 [DIN EN 1262]
Solidification Temperature:	Not Available
Initial Boiling point and boiling range:	> 200°C (The product decomposes)
Flash Point:	> 100°C
Evaporation Rate:	Not Available
Flammability:	Not self-igniting
Burning Time:	Not Applicable
Burning Rate:	Not Applicable
Upper / Lower flammability or explosive limits:	Not Available
Vapour Pressure:	< 0.1 hPa (20°C) (DIN 51794)
Vapour Density:	Not Available
Relative Density:	1.03 g/cm <sup>3</sup> @ 23°C (59F)
Solubility (ies):	Soluble in water
Partition Coefficient: n-octanol/water:	Not Available
Ignition Temperature:	> 200°C
Decomposition Temperature:	> 300°C
Explosive Properties:	Not explosive.
Oxidising Properties:	Not Available.
Viscosity:	Not Applicable

9.2 Other Information

Miscibility with water: partly miscible / hygroscopic

<b>10. STABILITY AND REACTIVITY</b>
-------------------------------------

- 10.1 Reactivity: No hazardous reactions if stored and handled as prescribed/ indicated. Corrosive effects to metal are not anticipated.
- 10.2 Chemical Stability: The product is stable if stored and handled as prescribed/indicated
- 10.3 Possibility of hazardous reactions: No hazardous reactions when stored and handled as prescribed/ indicated.
- 10.4 Conditions to Avoid: Avoid humidity
- 10.5 Incompatible Materials: Strong oxidising agents, strong bases, strong acids, halogens, reactive chemicals, atmospheric moisture
- 10.6 Hazardous decomposition products: No hazardous decomposition products when stored and handled as prescribed/ indicated.

<b>11. TOXICOLOGICAL INFORMATION</b>
--------------------------------------

## 11.1 Information on Toxicological effects

## Acute Toxicity

Product / Ingredient Name	Result	Species	Dose	Exposure
Oxirane, methyl-, polymer with oxirane	LD50	Rat	> 2000 mg/kg	

Conclusion / Summary: Not Available

## Skin Irritation / Corrosion

Non – Irritant (Draize test)

## Serious Eye Damage / Irritation

Non-Irritant (Draize Test)

## Respiratory / Skin Sensitisation

Non-Sensitizing

Information on the likely routes of exposure:

Routes of entry anticipated: Oral, Dermal, Inhalation

## Potential acute health effects:

- Eye Contact: No known significant effects or critical hazards
- Inhalation: No known significant effects or critical hazards
- Skin Contact: No known significant effects or critical hazards
- Ingestion: No known significant effects or critical hazards

## Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation: No Specific Data
- Ingestion: No Specific Data
- Skin Contact: No Specific Data
- Eye Contact: No Specific Data

## Delayed and immediate effects and also chronic effects from short and long term exposure

## Short Term Exposure

Potential immediate effects: Not Available

Potential delayed effects: Not Available

## Long Term Exposure

Potential immediate effects: Not Available

Potential delayed effects: Not Available

Potential Chronic Health Effects : Not Available

Conclusion / Summary: Not Available  
 General: No known significant effects or critical hazards  
 Carcinogenicity: Not listed as carcinogenic by OSHA, NTP or IARC  
 Mutagenicity: No known significant effects or critical hazards  
 Teratogenicity: No known significant effects or critical hazards  
 Developmental Effects: No known significant effects or critical hazards  
 Fertility Effects: No known significant effects or critical hazards

Other Information: Not Available

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Product / Ingredient Name	Result	Species	Dose	Exposure
Oxirane, methyl-, polymer with oxirane	LC50	Fish	> 100 mg/L	96 Hours
	EC50	Aquatic Invertebres	> 100 mg/L	48 Hours
	EC50	Aquatic Plants	> 100 mg/L	72 Hours

Conclusion / Summary: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

- 12.2 Persistence and degradability: < 60% CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily Biodegradable.
- 12.3 Bioaccumulative Potential: Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.
- 12.4 Mobility in Soil  
 Soil /water partition coefficient (K<sub>oc</sub>): Not Available  
 Mobility: The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.
- 12.5 Results of PBT and vPvB assessment  
 PBT: Not Applicable  
 vPvB: Not Applicable
- 12.6 Other adverse effects: No known significant effects or critical hazards
- 12.7 Additional Information: Chemical Oxygen Demand (COD): 2150 mg/g  
 Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

<b>13. DISPOSAL CONSIDERATIONS</b>
------------------------------------

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste Treatment Methods

Product: The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom)

Packaging: Uncontaminated packaging can be reused. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled, Incineration or landfill should only be considered when recycling is not feasible.

Special Precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

<b>14. TRANSPORT INFORMATION</b>
----------------------------------

	ADR / RID	AND / ADNR	IMDG	IATA
14.1 UN Number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 Proper Shipping Name	-	-	-	-
14.3 Transport Hazard Class(es)	-	-	-	-
14.4 Packing Group	-	-	-	-
14.5 Environmental Hazards	No	No	No	No
14.6 Special Precautions for user	Not Available	Not Available	Not Available	Not Available
Additional Information	-	-	-	-

14.7 Transport in Bulk according  
To Annex II of  
MARPOL 73/78 and  
The IBC Code:

Not Available

<b>15. REGULATORY INFORMATION</b>
-----------------------------------

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

The data should be considered when making any assessment under the control of Substances Hazardous to Health Regulations (COSHH) and related guidance, for example, 'COSHH Essentials' (United Kingdom)

15.2 Chemical Safety Assessment: Not Required



<b>16. OTHER INFORMATION</b>
------------------------------

\* Indicates information that has changed from previously issued version

Not to be used as an aerosol.

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Date of Printing:	28 February 2019
Date of Issue / Date of revision:	1 January 2019
Date of Previous Issue Version:	No previous validation
Version:	1
Prepared by:	
For Copy of SDS:	Email: <a href="mailto:info@gbrotech.co.uk">info@gbrotech.co.uk</a> 0118 9820 567
For product Safety Information:	Email: <a href="mailto:info@gbrotech.co.uk">info@gbrotech.co.uk</a> 0118 9820 567

-----

To the best of our knowledge , the information contained herein is accurate. However, neither the above-named supplied, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are only hazards that exist.