

SAFETY DATA SHEET

PRODUCT NAME: Aquazone Irrigation Tank Tablet

PRODUCT CODE: Aquazone Irrigation Tank Tablet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product Identifier

TRADE NAME	Aquazone Irrigation Tank Tablet
OTHER NAMES	Residual Wetting Agent / Tank Tablet
CHEMICAL SYNONYMS	Oxirane, methyl – polymer with oxirane

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

IDENTIFIED USES	Turf Wetting Surfactant
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1.3 Details of the supplier of the safety data sheet

SUPPLIER:	GBR TECHNOLOGY LTD UNIT 42 EASTER PARK BENYON ROAD SILCHESTER READING, BERKS RG7 2PQ Tel: 0118 9820567 Fax: 0118 9820590
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Email address of person responsible	info@gbrotech.co.uk
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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:	Substance
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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.
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SIGNAL WORD:	No signal word
HAZARD STATEMENTS:	No known significant effects or critical hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]
Oxirane, methyl-, polymer with oxirane	CAS:9003-11-6		Not Classified

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.

4. FIRST AID MEASURES

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 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. Solidified product should not be pulled from skin. Burns caused by molten material require hospital treatment. 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: Evolution of fumes / fog.

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 will 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 if the product has caused environmental pollution (sewers, waterways, soil or air) Contain contaminated water. Do not 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. If solid material is spilled then collect with suitable appliance and dispose of.

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.

7. HANDLING AND STORAGE

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).

- 7.1 Precautions for safe handling: No special precautions necessary provided product is used correctly.
- Protection against fire and explosion: No special precautions necessary
- 7.2 Conditions for safe storage, including any incompatibilities:
Keep container tightly closed and in a cool place. The product is not damaged by low temperatures or by frost. Bulk product must be protected from solidification. Protect from temperatures above 70°C. Properties of this product change irreversibly on exceeding the limit temperature.
- 7.3 Specific end use(s)
Recommendations:
Industrial sector specific solutions: Not available

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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.

8.1 Control Parameters

OCCUPATIONAL EXPOSURE LIMITS:

Product / Ingredient Name	Exposure Limit Values
None	None

Recommended monitoring procedures: None

8.2 Exposure Controls

Individual Protection Measures

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashed.

Skin Protection

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard (EN 374) should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Suitable materials also with prolonged, direct contact (recommended: Protective Index 6, corresponding > 480minutes of permeation time according to EN 374): nitrile rubber (NBR) – 0.4mm coating thickness.

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 begin 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 protections 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:	Waxy Type
Colour:	Colourless to Yellowish
Odour:	Product Specific
Odour Threshold:	Not Available
pH:	Approx. 7 [DIN EN 1262]
Solidification Temperature:	Approx. 37°C [DIN 51583]
Initial Boiling point and boiling range:	> 200°C (The substance 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 ³ @ 23°C (59°F)
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:	miscible in all proportions
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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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)

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: Is partially eliminated in sewage treatment plants

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_{oc}): 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

13. DISPOSAL CONSIDERATIONS

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.

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.

14. TRANSPORT INFORMATION

	ADR / RID	AND / ADN	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

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

* 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.

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