

<b>SAFETY DATA SHEET</b>
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**PRODUCT NAME:** GBR Formulation 42

**PRODUCT CODE:** GBR Formulation 42

<b>1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY</b>
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**1.1 Product Identifier**

TRADE NAME	GBR Formulation 42
OTHER NAMES	None
CHEMICAL SYNONYMS	Non-ionic surfactants

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

IDENTIFIED USES	Turf wetting agent
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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	<a href="mailto:info@gbrotech.co.uk">info@gbrotech.co.uk</a>
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**1.4 Emergency telephone number**

SUPPLIER:	0118 9820567
HOURS OF OPERATION:	Monday to Friday 08:30 – 17:00 HRS
INFORMATION LIMITATIONS:	Not applicable

<b>2. HAZARD IDENTIFICATION</b>
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2.1 Classification of the substance or mixture

PRODUCT DEFINITION:	Mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye irritant 2

Aquatic Chronic 3

## 2.2 Label elements



## PICTOGRAM:

## SIGNAL WORD:

Warning

## HAZARD STATEMENTS:

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:  
(prevention)

P280 Wear eye/face protection

P270 Do not eat, drink or smoke when using this product

P264 Wash with plenty of water and soap thoroughly after handling

PRECAUTIONARY STATEMENTS:  
(response)

P310 Immediately call a poison centre or doctor/physician

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

P301+P330 IF SWALLOWED: Rinse mouth

PRECAUTIONARY STATEMENTS:  
(disposal)

P501 Dispose of contents/container to hazardous or special waste collection point

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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## SUBSTANCE/MIXTURE:

Mixture

## 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical nature: Surfactant mixture

## Hazardous ingredients:

Name	Cas No.	%
Oxirane, methyl-, polymer with oxirane		<80 (Not classified)
3-(Polyoxyethylene)propylheptamethyltrisiloxane	67674-67-3	<5
Fatty alcohol alkoxyate		<20

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.

<b>4. FIRST AID MEASURES</b>
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## 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:	Keep patient calm. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.
Skin contact:	Immediately wash contaminated skin with plenty of water. Remove contaminated clothing and shoes. Apply sterile dressings to any damage skin. Get medical attention if symptoms occur.
Ingestion:	Immediately 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 (200ml – 300ml) of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

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

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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. Foam (specifically trained personnel only), water fog (specifically trained personnel only), dry chemical powder, carbon dioxide, other inert gases (subject to regulation), sand or earth.
Unsuitable extinguishing media:	Do not use direct water jets on the burning product: they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

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

Hazards from the substance or mixture:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products:	Harmful vapours/fumes/smoke will be liberated by incomplete combustion. CO/CO <sub>2</sub> , silicone dioxide will also be emitted.

#### 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:	Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**6. ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- For Emergency Responders: If specialised clothing is required to deal with spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

- 6.2 Environmental Precautions: Avoid dispersal of spilt material and run off and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

## 6.3 Methods and Materials for containment and cleaning up

- Small Spill: Stop leak if without risk. Move containers away from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- Large Spill: Stop leak if without risk. Move containers away from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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.

**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

- Protective Measures: Put on appropriate personal protective equipment (see Section 8)
- Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in the areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to

- prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- 7.3 Specific end use(s)  
Recommendations: This product is designed as a turf wetting agent, to be diluted in water prior to application at recommended rates to turf. Safe handling should be observed and the necessary personal protective equipment used.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control Parameters

#### OCCUPATIONAL EXPOSURE LIMITS:

No occupational exposure limits known.

### 8.2 Exposure Controls

#### Personal protective equipment

##### Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficacy for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

##### Hand protection:

Chemical resistant protective gloves (EN 374). Suitable materials also with prolonged, direct contact (recommended: Protective index 6, corresponding >480 minutes of permeation time according to EN 374: Nitrile rubber (NBR) – 0.4mm coating thickness

##### Eye protection:

Tightly fitting safety goggles (cage goggles – e.g. EN 166) and face shield

##### Body protection:

Body protection must be chosen depending upon activity and possible exposure, e.g. apron, protective boots, chemical protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)

General safety and hygiene measures: Wearing of closed work clothing is required additionally to the stated personal protective equipment. No eating, drinking, smoking or tobacco use at the place of handling. Handling in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

##### Appearance

Physical State:	Liquid
Colour:	Colourless to yellowish
Odour:	Mild - product specific
Odour Threshold:	Not Available
pH:	No data
Melting / Freezing point:	below 0°C
Initial Boiling point and boiling range:	No data
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:	Not available
Vapour Density:	Not Available
Relative Density:	1.02 gm <sup>-3</sup> @ 25°C typical
Solubility (ies):	Soluble in Water
Partition Coefficient: n-octanol/water:	Not Available
Auto-Ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Explosive Properties:	Not explosive. Containers may explode in heat of fire.
Oxidising Properties:	Not Available
Viscosity (dynamic):	Not Available
Surface Tension:	Not available

9.2 Other Information  
No Additional Information

## 10. STABILITY AND REACTIVITY

10.1	Reactivity:	No specific test data related to reactivity available for this product or its ingredients
10.2	Chemical Stability:	The product is stable
10.3	Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4	Conditions to Avoid:	No specific Data
10.5	Incompatible Materials:	Caustics, halogens, strong alkalis, acids, reactive chemicals.
10.6	Hazardous decomposition products:	None if stored and handled as indicated. May release COx, smoke and irritating vapours when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects

### Acute Toxicity

Experimental/calculated data: No data

### Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: No data

Serious eye damage/irritation rabbit: No data

### Aspiration hazard

No aspiration hazard expected

Other relevant toxicity information

This product has not been tested

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity  
 Aquatic invertebrates EC50 (48h) >10mg/l (Daphnia sp.) – based on data from similar materials  
 Toxicity to fish: LC50 (96h) >10mg/l – based on data from similar materials.
- 12.2 Persistence and degradability  
 Elimination information: No data available
- 12.3 Bioaccumulative Potential  
 Assessment: No data available
- 12.4 Mobility in Soil  
 Assessment: Volatility – the substance will not evaporate into the atmosphere from the water surface. Adsorption in soil – 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 provided in the Exposure Scenario(s).

- 13.1 Waste Treatment Methods  
 Product  
 Methods of Disposal: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non – recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and if not cleaned should be disposed of in the same manner as the contents. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. TRANSPORT INFORMATION

	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

### 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture  
EU Regulation (EC) No. 1907/2006 (REACH)  
Annex XIV – List of substances subject to authorisation  
Substances of very high concern: None of the components are listed.  
Annex XVII – Restrictions on the  
manufacture, placing on the market  
and use of certain dangerous  
substances, mixtures and articles: Not Applicable
- 15.2 Chemical Safety Assessment: Complete

### 16. OTHER INFORMATION

Date of Printing: 07 March 2019  
Date of Issue / Date of revision: 25 February 2019  
Date of Previous Issue Version: -  
Version: 1  
Prepared by: ADF  
For Copy of SDS: Email: [info@gbritech.co.uk](mailto:info@gbritech.co.uk)  
0118 9820 567  
For product Safety Information: Email: [info@gbritech.co.uk](mailto:info@gbritech.co.uk)  
0118 9820 567

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