L169629 GBBI/12Q PPF4018343



# syngenta<sub>®</sub>

A wetting and water conservation agent

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work.

### SAFETY PRECAUTIONS

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

When using do not eat drink or smoke.

To avoid risks to man and the environment, comply with the instructions for use.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. WASH OUT CONTAINER THOROUGHLY, and dispose of safely \*DO NOT RE-USE CONTAINER for any other purpose

Syngenta UK Limited CPC4 Capital Park, Fulbourn, Cambridge CB21 5XE Tel: Cambridge (01223) 883400

In case of toxic or transport emergency ring +44 (0) 1484 538444 any time

PROTECT FROM FROST SHAKE WELL BEFORE USE

Product names marked ® or ™, the ALLIANCE FRAME the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

TM

10 litres

S-PAC

DESCRIPTION: LBL S PANEL RH 140X160 MM SCALE: 1:1 ISSUE NO: SYN002 ISSUE DATE: 03.08.2009

256318

**L1017887** GBRI/2U PPE 4062983

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# 500 litres

#### DIRECTIONS FOR USE

### GENERAL INFORMATION

QUALIBRA is a wetting and water conservation agent that has been developed to help in the management of water in turfgrass root zones, and to help prevent dry patch (localised dry spot).

QUALIBRA comprises a dynamic penetrant and a powerful polymer. The penetrant component drives more efficient water movement and distribution within the root zone; while the polymer component holds moisture deeply and evenly within the root zone. It is designed for use on all areas of golf courses, sports fields and other amenity turf areas.

QUALIBRA is well tolerated by all major turf species and allows more uniform distribution of moisture throughout the root zone. Following application water conservation effects occur throughout the root zone and not just on the surface or thatch layers. For optimum turf quality QUALIBRA should be used in conjunction with turf management practices that promote good turf health.

#### RESTRICTIONS

Prevent spray drift onto surrounding areas. Do not apply when ground is frozen.

#### CROP SPECIFIC INFORMATION

Apply as a preventative programme to prevent the development of dry patch (localised dry spot)

Apply at a rate of 20 I/ha in a water volume of 400-1000 litres per hectare.

Apply QUALIBRA at approximately monthly intervals in a preventative programme to prevent the development of localised dry spot and aid water management.

QUALIBRA would typically be applied from early spring to autumn, but can be applied throughout the year if required.

#### MIXING AND SPRAYING

Make sure the sprayer is clean and set to give an even application at the correct volume and an even deposit. Half fill the! spray tank with clean water and commence agitation, Add the required quantity of QUALIBRA to the spray tank, Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight). Make up only the amount of spray required for immediate use.  Thoroughly wash all spray equipment with water immediately after use.

As part of our Product Stewardship policy, Syngenta Crop Protection recommends the following precautions should also be observed:

Wear appropriate clothing - coveralls and protective gloves, when handling the concentrate.

For further information please see www.greencast.co.uk or www.greencast.ie

QUALIBRA is a trademark of a Syngenta Group Company

#### Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

Tradename QUALIBRA A16982A Design Code Wetting Agent

Company Identification

Company Syngenta UK Ltd

CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE (01223) 883400 Phone

(01223) 882195 Fax Website www.syngenta.co.uk +44 (0) 1484 538444 (24h) Emergency Phone

#### 2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

	Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
1	oxirane, methyl-, polymer with oxirane, mono[2-(6,6-dim ethylbicyc- lo[3.1.1]hept-2-e n-yl)ethyl] ether	174955- 61-4	-	Xn	R22 R41	15-25 % w/w

Substances for which there are Community workplace exposure limits For the full text of the R phrases mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Remove the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration, Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eve contact: Rinse immediately with plenty of water, also under the evelids, for at least 15 minutes, Remove contact Tenses, Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Symptoms: No information available.

Medical advice: There is no specific antidote available. Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media:

Extinguishing media - small fires; Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire

Specific hazards during fire fighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire fighters: Wear full protective clothing and self-contained breathing apparatus. Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth. diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

#### 7. HANDLING AND STORAGE

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Components with workplace control parameters

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

#### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

#### PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment: Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements. Eve protection: If eve contact is possible, use tight-fitting chemical safety goggles.

Skin and body protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Pysical state:

Form: Clear to slightly turbid liquid molecule

Colour: colourless Odour: like nine

4.9-9.00 at 1 %w/v (-10 - 40 °C) Flash point: >80 °C Pensky-Martens c.c.

Density: 1.045 g/cm3 at 20 °

#### 10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical stability: No information available.

Possibility of hazardous reactions: None known, Hazardous polymerisation does not occur.

Conditions to avoid: No information available. Incompatible materials: No information available.

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

#### 11. TOXICOLOGICAL INFORMATION Information on toxicological effects

Acute oral toxicity:

LD50 rat 200 - 2,000 mg/kg

oxirane, methyl-,polymer with oxirane, mono[2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl]ether

# Skin corrosion/irritation:

oxirane, methyl-,polymer with oxirane, mono[2-(6.6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyllether

Information given is based on data obtained from similar substances.

#### Serious eve damage/Eve irritation:

Mildly irritating.

#### 12. ECOLOGICAL INFORMATION

Toxicity to fish: No information available.

#### Persistence and degradability

Biodegradability: No information available. Stability in water: No data available.

Stability in soil: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available

Other adverse effects: None known.

### 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Product:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents, Triple rinse containers, Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

#### 14. TRANSPORT INFORMATION

Rail / Road / Sea / Air (RID / ADR / IMDG / IATA-DGR) Not dangerous goods

Special precautions for user:

Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## 15. REGULATORY INFORMATION

Not a dangerous substance

To avoid risks to man and the environment, comply with the instructions for use.

#### 16. OTHER INFORMATION

Always read the label.

Based on Version 2 dated 24th August 2012, with local amendment.

Text of R phrases mentioned in Sections 2 and 3:

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes..

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage. transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This version replaces all previous versions.

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