

A wetting and water conservation agent.

Keep out of reach of children.

Do not eat, drink or smoke when using this product. Keep away from food or feed and drinks.

Safety data sheet available on request (EUH 208).

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

IMPORTANT INFORMATION

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

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.

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.

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 th 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

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

QUALIBRA® is a trademark of a Syngenta Group Company

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

Safety Data Sheet - v2.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name: QUALIBRA

Design code: A16982A

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

Use of the Substance/Mixture: Wetting agent

1.3 Details of the supplier of the safety data sheet

Company: Syngenta UK Limited, CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE, United Kingdom Telephone: +44 (0) 1223 883400

Telefax: +44 (0) 1223 882195

E-mail address of person responsible for the SDS: customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone number: +44 1484 538444

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK S 2019/720. and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) require Precautionary statements: P102 Keep out of reach of children.

> P270 Do not eat, drink or smoke when using this product P401 Keep away from food or feed and drinks

Additional Labelling: FUH210 Safety data sheet available on request

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
oxirane, methyl-, polymer with	174955-61-4	Acute Tox. 4; H302	>= 20 - < 30
oxirane, mono[2-(6,6-dimethylbicy-		Eye Irrit. 2; H319	
clo[3.1.1]hept-2-en-2-yl)ethyl] ether			

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

If inhaled: Move 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. In case of 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. hygiene advice. In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least Personal protective equipment 15 minutes. Remove contact lenses. Immediate medical attention is required. If swallowed: If swallowed, seek medical advice immediately and show this container or label. Do Hand protection

NOT induce vomiting. 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Nonspecific, No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Extinguishing media - large fires: Alcohol-resistant foam or Water spray

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

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.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect 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). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water. 6.4 Reference to other sections

For disposal considerations see section 13. Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage 7.1 Precautions for safe handling

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. 7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s)

Specific use(s): Refer to protective measures listed in sections 7 and 8.

SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feedingstuffs.

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls 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. Maintain air concer trations below occupational exposure standards. Where necessary, seek additional occupational

Eve/face protection: No special protective equipment required.

Remarks: No special protective equipment required.

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

Respiratory protection: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemica	Ecotoxicology Assessment	
Appearance: mobile, clear to slightly turbid, liquid Colour: colourless odour: No data available Odour Threshold: No data available pH: 4.9 - 9.00 (-10 - 40 °C). Concentration: 1%w/v Melting point/range: No data available Boiling point/boiling range: No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper explosion limit / Upper flammability limit: No data available Lower explosion limit / Lower flammability limit: No data available	Vapour pressure: No data available Relative vapour density: No data available Density: 1.045 g/cm³ (20 °C) Water solubility: No data available Solubility in other solvents: No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Usscosity, kinematic: No data available Explosive properties: No data available Oxidizing properties: No data available	Acute aquatic toxicity: This prochronic aquatic toxicity: This; 12.2 Persistence and degrat Components: oxirane, methyl-, polymer wethyll ether: Biodegradability: Result: Readily biodegradable. Biodegradation: 64 % Exposure time: 28 d Method: OECD Test Guideline 12.3 Bioaccumulative potent No data available 12.4 Mobility in soil

9.2 Other information

Particle size: No data available

SECTION 10: Stability and reactivity 10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions. 10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

10.5 Incompatible materials

Materials to avoid: None known

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact Acute toxicity

Product:

Acute oral toxicity: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Conditions to avoid: No decomposition if used as directed

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

Acute oral toxicity: LD50 (Rat. male and female): > 300 - 2.000 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion Serious eye damage/eye irritation

Product: Species: Rabbit

Result: No eve irritation

oxirane, methyl-, polymer with oxirane, mono[2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethvl1 ether:

Remarks: Information given is based on data obtained from similar substances.

SECTION 12: Ecological information 12.1 Toxicity

ethyll ether:

0.1% or higher.

12.6 Other adverse effects

Method: OECD Test Guideline 301B

12.5 Results of PBT and vPvB assessment

12.3 Bioaccumulative potential

12.2 Persistence and degradability

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

Assessment: This substance/mixture contains no components considered to be either persistent.

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

Endocrine disrupting potential: The substance/mixture does not contain components considered

regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

UK REACH List of restrictions (Annex 17): Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

L1113517 GBRI/12B PPE 4198474

H319: Causes serious eye irritation. Eye Irrit.: Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number: ECx - Concentration associated with x% response: Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal

Where possible recycling is preferred to disposal or incineration. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Contaminated packaging: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number ADR: Not regulated as a dangerous good

14.2 UN proper shipping name

SECTION 13: Disposal considerations

13.1 Waste treatment methods

ADR: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good | 14.6 Special precautions for user 14.3 Transport hazard class(es) ADR: Not regulated as a dangerous good 14.7 Transport in bulk according to Annex II of

RID: Not regulated as a dangerous good | Marpol and the IBC Code IATA: Not regulated as a dangerous good

14.4 Packing group ADR: Not regulated as a dangerous good

RID: Not regulated as a dangerous good RID: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good IATA: Not regulated as a dangerous good IATA (Cargo); Not regulated as a dangerous good IATA (Passenger): Not regulated as a dangerous god 14.5 Environmental hazards

RID: Not regulated as a dangerous good Not regulated as a dangerous good

IATA: Not regulated as a dangerous good Remarks: Not classified as dangerous in the meaning of transport regulations.

IMDG: Not regulated as a dangerous good Not applicable for product as supplied.

bw - Body weight: CLP - Classification Labelling Packaging Regulation: Regulation (EC) No 1272/2008: ELx - Loading rate associated with x\% response: EmS - Emergency Schedule: ENCS - Existing and to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association: IBC - International Code for the inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NZloC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (0)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern: TCSI - Taiwan Chemical Substance Inventory: TECI - Thailand Existing Chemicals Inventory: TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative.

Further information

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 guid-ance 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.

Components

Acute aquatic toxicity: This product has no known ecotoxicological effects.

Chronic aquatic toxicity: This product has no known ecotoxicological effects.

Distribution among environmental compartments: Remarks: No data available

oxirane, methyl-, polymer with oxirane, mono[2-(6.6-dimethylbicyclo[3,1,1]hept-2-en-2-yl)

Relevant EU provisions transposed through retained EU law

SECTION 15: Regulatory information

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation: Not applicable

for Great Britain): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not

Control of Major Accident Hazards Regulations 2015 (COMAH) Not applicable 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance. SECTION 16: Other information

Full text of H-Statements Full text of other abbreviations H302: Harmful if swallowed. Acute Tox.: Acute toxicity