

1: Identification of the Substance and Supplier

Product Name QUASAR
Recommended Use Herbicide

Suppliers Details Orion AgriScience Ltd

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 Email Address
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Telephone Number (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision July 2020

2: Hazards Identification

Hazard Pictograms

Signal Words Hazard Classes:

6.1E Acute Toxicity (Oral Cat. 5)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.8B Reproductive Toxicity (Cat. 2)

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

9.1B Aquatic Ecotoxicity (Cat. 2)

9.2B Soil Ecotoxicity

Precautionary Statements:

Prevention



Warning

Hazard Statements:

H303 May be harmful if swallowed

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects
Toxic to some plant species (selective herbicide)

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions

P264 Wash hands thoroughly after handling

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P203 Obtain, read and follow all safety instructions before use

P280 Wear protective gloves/protective clothing/eye protection/face protection

P260 Do not breathe dust/fume/gas/mist/vapours/spray

Avoid contact with eyes and skin. Do not breathe in the spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the

environment beyond the application area. Do not apply directly into or onto water.

P301+P317 IF SWALLOWED: Get medical help

P332+P317 If skin irritation occurs get medical advice

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

P337+P317 If eye irritation persists: Get medical help P302+P352 IF ON SKIN: Wash with plenty of water

Response



P333+P317 If skin irritation or rash occurs: Get medical help

P321 Specific treatment (Refer to section 4)

P362+P364 Take off contaminated clothing and wash it before reuse

P318 If exposed or concerned, get medical advice

P319 Get medical help if you feel unwell

P391 Collect spillage

First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage P405 Store locked up

Keep out of reach of children

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

3: Composition/ Information on Ingredients

ngredient CAS No Content (% w/v)

Bentazone sodium salt (active ingredient) 25057-89-0 22 MCPB sodium salt (active ingredient) 6062-26-6 22

Other ingredients Proprietary Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice. For advice call the National

Poisons Centre or a Doctor

Ingestion: Seek medical advice

Skin Contact: Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor: No specific antidote. Treat symptomatically
National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion: No data available

Skin Contact: Irritation. Contact may induce an allergic response in susceptible individuals

Eye Contact: Irritation

Inhalation: No data available

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable

HAZCHEM Code 3Z ERP Guide No 47

Extinguishing Media Water spray, foam, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

6: Accidental Release Measures

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Personal PrecautionsCaution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in

section 8. Exclude non-essential people from the area.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean UpAbsorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

Storage: Keep out of reach of children. Store in the original tightly closed container in a secure area.

Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

REI Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

Eye Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying

SkinCotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and

applying

Respiratory Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter)

is required.

Clean protective equipment after use

9: Physical and Chemical Properties

AppearanceAmber LiquidOdourNon specific

Odour Threshold No data available

pH 7 - 10

Melting Point/Freezing Point < 0°C

Boiling Point > 100°C

Flash Point Not applicable
Flammability Not flammable

Upper/Lower Flammability Limits

Vapour Pressure

Vapour Density

Relative Density

No data available

1.15 g/mL (approx.)

Solubility in Water Soluble

Partition Coefficient: n-octanol/water See section 12

Auto ignition Temperature Not applicable

Decomposition Temperature No data available

Kinematic Viscosity No data available

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone Known

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11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral ToxicityLD50 > 2000 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin Irritant/Corrosive Irritant. Contact may induce an allergic response in susceptible individuals

Eye Irritant/Corrosive Irritant

Sensitisation Effects Contact may induce an allergic response in susceptible individuals

Mutagenic Effects None
Carcinogenic Effects None

Reproductive Effects Extended animal feeding studies on MCPB have found changes such as decreased testes size and

spermatogenic activity, tubular atrophy, and prostrate atrophy

Specific Organ Toxicity Extended animal feeding studies on MCPB have found effects on liver, kidney and alimentary system

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:				
Ecotoxicity	Bentazone			
	•	Acute Oral LD50 (Bobwhite quail) 1140 mg/kg		
	•	LC50 (96 hr) (Rainbow trout) 100 mg/l		
	•	EC50 (48 hr) (Daphnia) 64 mg/l		
	•	EC50 (72 hr) (Algae) 47 mg/l		
	•	Non-toxic to bees		
	МСРВ			
	•	Acute Oral LD50 (Bobwhite quail) 282 mg/kg		
		LC50 (96 hr) (Rainbow trout) 4.3 mg/l		

LC50 (48 hr) (Daphnia) 55 mg/l
 EC50 (Algae) (120 hr) 0.42 mg/l

Non-toxic to bees

Persistence/degradability

Biodegradable. DT50 (soil) 20 days (typical) (Bentazone)

Biodegradable. DT50 (soil) 7 days (typical) (MCPB)

Bioaccumulative Potential Octanol-water partition coefficient LogP = -0.46 (low) (Bentazone)

LogP = 1.32 (low) (MCPB)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 55.3 (mobile) (Bentazone)

No data available (MCPB)

Environmental Exposure Limit: None established

Product Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd. Container Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other purpose.

14: Transport Information	
Dangerous Goods	
UN Number	3082

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Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENTAZONE SODIUM 22%, MCPB

SODIUM 22%)

Class

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle Maximum quantity 1 litre

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<b>N-1010</b>		 

EPA Approval No

ACVM Registration No

P8615

Qualified Person

Certified Handler

Workplace Only

Tracking

Not required

No

No

Not required

Record Keeping Not required

Site Requirements under EPA Notice

and HSWHS Regs:

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable
- Fire extinguishers are not required
- Signage is required for more than 1000 litres
- An emergency response plan is required for more than 1000 litres
- Secondary containment is required for more than 1000 litres
- Segregation from incompatible substances is not required

**Additional Requirements** 

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

#### **16: Other Information**

ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are
	expected over a lifetime of exposure

ACVM Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries

**Cat.** GHS category

**Ceiling** A concentration that should not be exceeded at any time during any part of the working day

Certified Handler A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and

6.1B)

**DT50** Time (days) for 50% reduction in concentration

**EC50** Concentration required to produce an effect in 50% of organisms

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

**EPA Notice** Hazardous Property Controls Notice 2017

ERP Guide Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

GHS Globally harmonized system of classification and labelling of chemicals

**Hazardous Substance Location** For locations storing hazard substances of certain classes above threshold quantities

**Compliance Certificate** 

Hazardous Area A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

**HAZCHEM Code** Emergency action code for emergency services

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HSWHS Regs Health and Safety at Work (Hazardous Substances) Regulations 2017

**LC50** Concentration that will kill 50% of organisms

**LD50** Dose that will kill 50% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

**Notification**Advance notice given to neighbours and other affected parties, of details of proposed application, and

other details as described

Octanol-Water Partition Coefficient The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

Protected Place Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

Public Place A place frequented by the public, including roads (does not include private property)

**Qualified Person** A requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

**Record Keeping** Includes a spray diary or other record of application

REI Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

**Segregation** Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

Separation Distances The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

**Signage** Positioned at entrances to commercial premises providing information on the hazardous substances

present

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

**Soil Organic Carbon-Water**The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.

Partitioning Coefficient (Koc)

The higher the value the less mobile the chemical is in soil

STEL

Short term exposure level – 15 minute time weighted average

**Tolerable Exposure Limit**Maximum concentration limit of a substance above which persons must not be exposed

**Tracking** For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

**Workplace Exposure Standard**An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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