



Safety Data Sheet

SANONDA
AUSTRALIA) PTY LTD

Infosafe Issue Date : August 2015 ISSUED by SANONDA

Product Name **Sanonda Herbicide Quizalofop 200EC**

Classified as hazardous

1. Identification

GHS Product Identifier Sanonda Herbicide Quizalofop 200EC

Product Code 7117

Product Type Group A Herbicide

Company Name Sanonda (Australia) Pty Ltd (ABN 23 059 813 973)

Address Suite 822, St Kilda Road Towers, No. 1 Queens Road, Melbourne, Victoria 3004 Australia

Telephone/Fax Number Tel: +61 3 9863 8081
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Emergency phone number +61 3 9863 8081

Recommended use of the chemical and restrictions on use For control of certain grass weeds in broadleaf crops as per the label.

Other Information This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2
Aspiration hazard: Category 1
Specific target organ toxicity (single exposure) : Category 3
Hazardous to the Aquatic Environment - Chronic Hazard: Category 2

Signal Word (s) POISON

Hazard Statement (s) Causes serious eye damage. Harmful if swallowed. May cause harm to the unborn child. Irritating to respiratory system
Causes skin irritation.

General Precautionary Statement (s) If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Pictogram (s) Hazardous, Exclamation mark, Ecotoxic



Precautionary statement - Prevention Wear protective gloves, clothing, eye and face protection.
Wash hands and exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Precautionary statement - Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Other Information Poisons Schedule S6

3. Composition/information on ingredients

Chemical Characterization Liquid

| Ingredients | Name | CAS | Proportion |
|--------------------|-------------|------------|-------------------|
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| | | |
|---------------------------------|-------------|----------|
| Quizalofop-p-ethyl | 100646-51-3 | 250 g/L |
| Other non-hazardous ingredients | -- | the rest |

4. First-aid measures

| | |
|-----------------------------|--|
| Inhalation | Remove from exposure. If vapour has been inhaled, lie patient down comfortably and keep warm. Monitor closely and seek medical attention if effects persist. |
| Ingestion | Wash out mouth with water. Do NOT induce vomiting. Do NOT give anything by mouth to a semiconscious or unconscious patient. Seek medical advice immediately. If vomiting occurs then place patient to prevent vomit from entering the lungs. |
| Skin | Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, seek medical advice. |
| Eye contact | Hold eyelids open and wash eyes with plenty of water for 5 minutes, remove contact lenses if present and wash for a further 10 minutes. See a doctor if symptoms persist. |
| First Aid Facilities | If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. |
| Advice to Doctor | Treat symptomatically. |

5. Fire-fighting measures

| | |
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| Suitable extinguishing media | Extinguish fire using foam, carbon dioxide, or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. |
| Hazards from Combustion Products | Keep upwind. Will produce toxic and noxious vapours when burnt. There is a risk of containers exploding if large quantities are involved in a fire. Will not polymerise. |
| Special Protective Equipment for fire fighters | Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated. |
| Other Information | STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. |

6. Accidental release measures

| | |
|------------------------------|---|
| Spills & Disposal | Precautions Prevent spillage from entering drains or water courses. As a minimum cotton overalls buttoned to the neck and wrist, a washable hat, and elbow-length PVC gloves. In the case of spillage, stop leak if safe to do so, and contain spill. and absorb spilled material with absorbent material such as sand, clay or cat litter. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. |
| Environmental | Prevent from entering drains, waterways or sewers. |

7. Handling and storage

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| Precautions for Safe Handling | Keep away from food, drink, and animal feedstuff. |
| Conditions for safe storage, including any incompatibilities | Store in the original container in a dry, cool, ventilated, LOCKED area. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Always read the label and any attached leaflet before use. |
| Other Information | |

8. Exposure controls/personal protection

| | |
|---|---|
| Occupational exposure limit values | Exposure guidelines have not been established for this product by Safe Work Australia, however one ingredient has the following exposure guideline. N-methyl pyrrolidone TWA:103 mg/m ³ (25 ppm) |
| Appropriate engineering controls | Use in ventilated areas. Keep containers closed when not in use. If natural ventilation is inadequate, supplement with fans. |



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Personal Protective Equipment When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, and elbow-length PVC gloves. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use wash gloves and contaminated clothing.

Hygiene Measures Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

9. Physical and chemical properties

Form Liquid

Appearance Dark amber coloured liquid

Odour Characteristic odour

Melting Point No data available

Boiling Point No data available

Solubility in Water Emulsifies in water. Not soluble.

Specific Gravity 1.0 ± 0.1 g/mL

pH No data available

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Flash Point >61°C

Flammability Combustible liquid (C1).

10. Stability and reactivity

Incompatible Materials Avoid high temperature, moisture (preferably < 45°C) and strong oxidizing agents

Possibility of hazardous reactions Could produce carbon monoxide, oxides of nitrogen and chlorine.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure

Acute Toxicity - Oral LD50 (rat, male) 1210-1670 mg/kg; (rat, female) 1753-2350 mg/kg

Acute Toxicity - Dermal LD50 (rabbit) >2,000 mg/kg

Acute Toxicity - Inhalation LC50 (rat) (4hr) 5.8 mg/l for technical quizalofop-p-ethyl

Ingestion Very small amounts swallowed incidentally as a result of normal handling operations are not likely to cause significant injury; however, swallowing larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

Inhalation Inhalation of vapours, mists or sprays may produce respiratory irritation.

Skin This product is irritating to the skin.



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Eye This product is severely irritating to the eyes. Symptoms may include stinging and reddening of eyes and watering. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure In animal studies, quizalofop has shown no evidence of mutagenic or genotoxic effects. Studies indicate that quizalofop is no carcinogenic. Reproductive effects: Although impaired reproductive function was determined in one study, the data was insufficient to draw conclusions regarding the likely reproductive effects of quizalofop-p-ethyl in animals, but suggest that effects on human reproduction are unlikely under normal circumstances. Safe Work Australia has classified N-Methyl-Pyrrolidone in the occupational environment as a reproduction category 2 substance - which indicates that there is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility.

Organ toxicity The liver is the target organ in rats and dogs and the testes maybe a target organ in dogs.

12. Ecological information

Persistence and degradability The half-life of quizalofop in soil is 60 days depending on the soil.

Other Precautions Environmental Protection No information is available for the product. The following information refers to the active ingredient, quizalofop. Not expected to leach significantly. Moderately to strongly sorbed to soils. DO NOT contaminate streams, rivers or water courses.

Acute Toxicity - Fish Quizalofop is highly toxic to fish. LC50 ranges from 10.7 mg/L for rainbow trout to 0.46 mg/L in bluegill sunfish.

Acute Toxicity - mallard ducks The oral LC50 is greater than 2000 mg/kg for mallard ducks. The dietary LC50 (8 day) is greater than 5,000 ppm for bobwhite quail and mallard ducks.

Acute Toxicity - Other Organisms The following data is for the active ingredient, Quizalofop.
Birds: Not toxic to birds.
Bees: Not toxic to bees. LD50(48 hours) >100 mg/bee.

13. Disposal considerations

Product Disposal Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).

Container Disposal Whenever possible, follow directions given on container. If not available, triple or pressure rinse containers before disposal. Recycle containers if possible (replace cap and return clean containers to recycler or designated collection point). Treat rinsings as for product above. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Sewage: Do not dispose of product or rinsings into sewage systems or septic tanks. Absorbent material used for spillage collection should be buried in an approved landfill

14. Transport information

Road & Rail Transport This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082. (See special provision AU01). This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940.

Marine and Air Transport If transporting by sea or air the following Dangerous Goods Classification applies: UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS, SUBSTANCE, LIQUID, N.O.S.



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(Contains Quizalofop). Hazchem code ●3Z. Hazard Identification Number (HIN) 90.

15. Regulatory information

Poisons Schedule S6

Packaging & Labelling POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 69786/61687.

16. Other Information

Date of preparation or last revision of SDS Revised 18/08/2015
This SDS replaces document dated April 2014.

Contact Person/Point Revisions Highlighted Sanonda (Australia) Pty Ltd
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The SDS was reviewed to include GHS requirements.

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