

# POISON

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

The Sabakem logo features a stylized blue and grey 'S' icon to the left of the brand name 'Sabakem' in a bold, blue, sans-serif font.

# 2,4-D LVE 680<sup>®</sup>

Herbicide

ACTIVE CONSTITUENT: 680g/L 2,4-D present as the 2-ETHYLHEXYL ESTER

GROUP



HERBICIDE

A specially formulated low volatile herbicide for selective control of various weeds in crops, pastures and non-agricultural areas as per the Directions For Use Table.

This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS PRODUCT

**Sabakem Pty Ltd** ABN 34 151 682 138  
Suite 809, Level 8, 2 Queen Street, Melbourne VIC 3000  
Tel: 03 9629 3979 • Fax: 1300 242 436 • [www.sabakem.com](http://www.sabakem.com)

**Contents: 20L**



# 2,4-D LVE 680<sup>®</sup>

## Herbicide

### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

### SAFETY DIRECTIONS

Poisonous if swallowed. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear PVC or rubber apron, elbow-length PVC gloves and face shield. When using the prepared spray, wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves, face shield and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26.

### SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS).

### CONDITIONS OF SALE

The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible Liquid. Harmful if swallowed. Harmful if inhaled. Toxic to aquatic life with long lasting effects.

® Registered trademark of Sabakem Pty Ltd  
APVMA Approval No: 69247/60337

In a Transport Emergency  
**DIAL 000**  
POLICE OR FIRE BRIGADE

For specialist advice in an  
emergency dial  
**1800 033 111**  
24 hours Australia wide



DOM:

Batch

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**Contents: 110L**



# 2,4-D LVE 680<sup>®</sup>

## Herbicide

### STORAGE AND DISPOSAL

Store the original sealed Envirodrum in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any other foreign matter. After each use of the product please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Sabakem Pty Ltd.

### SAFETY DIRECTIONS

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9 347566 000749 >

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# 2,4-D LVE 680<sup>®</sup>

Herbicide

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GROUP



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**Contents: 1000L**



# 2,4-D LVE 680<sup>®</sup>

## Herbicide

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**Refillable containers:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### SAFETY DIRECTIONS

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# Sabakem

## 2,4D LVE HERBICIDE

**ACTIVE INGREDIENT: 680 g/L 2,4-D present as the ETHYL HEXYL ESTER**

**PLEASE READ THESE INSTRUCTIONS IN CONJUNCTION WITH THE PRODUCT LEAFLET ACCOMPANYING THIS PRODUCT.**

THIS IS A **PHENOXY HERBICIDE** THAT CAN CAUSE SEVERE DAMAGE TO NATIVE VEGETATION AND SUSCEPTIBLE CROPS SUCH AS COTTON, GRAPES, TOMATOES, OILSEED CROPS AND ORNAMENTALS.

### **RESTRAINTS**

**DO NOT** apply in a manner that may cause unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

**DO NOT** allow bystanders to come into contact with the spray cloud.

**DO NOT** apply unless the wind speed is between 3 and 15 kilometres per hour at the application site during the time of application.

**DO NOT** apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

### **Recognising a surface temperature inversion**

A surface temperature inversion is likely to be present if:

- Mist, fog, dew or a frost have occurred.
- Smoke or dust hangs in the air and moves sideways, just above the ground surface.
- Cumulous clouds that have built up during the day collapse towards evening.
- Wind speed is constantly less than 11 km/hr in the evening and overnight.
- Cool off-slope breezes develop during the evening and overnight.
- Distant sounds become clearer and easier to hear.
- Aromas become more distinct during the evening than during the day.

Information from GRDC Fact Sheet: 'Surface Temperature Inversions and Spraying', July 2014

### **Spray timing**

Spray during the day wherever possible. Vertical mixing of the air makes surface temperature inversions unlikely and will reduce the risk of drift caused by surface temperature inversions.

There is a very low risk of surface temperature inversion when there is continuous overcast weather, with low and heavy cloud and/or the wind speed remains above 11 km/hr for the whole period between sunset and sunrise.

A lack of suitable weather conditions for spraying over extended periods is not an excuse for spraying in unsuitable conditions.

**DO NOT** apply if crop or weeds are stressed due to dry or excessively moist conditions.

**DO NOT** apply with spray droplets smaller than VERY COARSE spray droplets according to the ASAE S572.1 definition for standard nozzles.

**DO NOT** use if rain is likely within 6 hours.

## Monitoring and record keeping

Users of this product **MUST** make an accurate written record of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are:

1. Date of use with start and finish times of application;
2. The specific locations which must include address and paddock/s sprayed;
3. Product trade name (full name) of the product being used;
4. Rate of application which must include the amount of product used per hectare and number of hectares applied to;
5. Situation, crop or commodity to which the chemical was applied;
6. Wind speed and direction during application;
7. Air temperature and relative humidity during application;
8. Nozzle brand, model, size, type, and spray system pressure measured during application;
9. Height of spray boom from ground;
10. Name and contact details of person applying this product (additional record keeping and/or details may be required by the state or territory where this product is used).

**Watch for changes in weather conditions. Stop spraying immediately if a surface temperature inversion occurs or if spraying conditions become unsuitable for any other reason.**

### ADVISORY FOR BOOM SPRAYER USE IN CEREALS, FALLOW AND PASTURE 1<sup>ST</sup> OCTOBER TO 15 APRIL

USE IN CEREALS, FALLOW AND PASTURES DURING THE PERIOD 3<sup>RD</sup> OCTOBER TO 15<sup>TH</sup> APRIL, IT IS ADVISED TO:-

USE NOZZLES THAT PRODUCE **EXTREMELY COARSE (XC) TO ULTRA COARSE (UC) DROPLETS.**

USE HIGHER WATER RATES PER HA, TO GIVE BETTER EFFICACY.

USE SLOWER APPLICATION SPEEDS TO ALLOW OPERATORS TO LOWER BOOM HEIGHTS.

INCREASING DROPLET SIZE AND WATER RATES WHILE REDUCING APPLICATION SPEED WILL ASSIST IN MITIGATING OFF TARGET INVERSION DRIFT DURING SUMMER SPRAYING. EXTREMELY COARSE DROPLETS WILL PRODUCE <3% DRIFTABLE DROPLETS.

## BOOM SPRAYERS

**DO NOT** apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a VERY COARSE (VC) spray droplet size category (minimum XC between 3 October and 15 April – advisory)
- Boom heights 0.5 metres or lower above the target canopy (The higher of either the crop canopy or the targeted weeds)
- Minimum distances between the application site and downwind sensitive aquatic and wetland areas including aquacultural ponds, surface streams and rivers (see Aquatic 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for boom sprayers') are observed.
- Minimum distances between the application site and downwind sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat (see Terrestrial 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for boom sprayers') are observed. The buffer zones provide guidance but may not always be completely protective of all agricultural crops.

### BUFFER ZONES FOR BOOM SPRAYERS:

| Application rate (/ha)   | Downwind mandatory no spray zone |             |
|--|----------------------------------|-------------|
|  | Aquatic                          | Terrestrial |
| <b>Dryland cropping: winter cereals and fallows</b>                    |                                  |             |
| Up to 230 mL (155 g ae/ha)   | 0 metres                         | 0 metres    |
| Up to 820 mL (560 g ae/ha)   | 5 metres                         | 15 metres   |
| <b>Dryland cropping: preparatory spray and harvest aid application</b> |                                  |             |
| Up to 1.7 L (1140g ae/ha)  | 20 metres                        | 30 metres   |
| <b>Tropical &amp; subtropical uses: sugarcane</b>                      |                                  |             |
| Up to 2.4 L (1620 g ae/ha)   | 30 metres                        | 40 metres   |
| <b>Pasture</b>   |                                  |             |
| Up to 4.7 L (3180 g ae/ha)   | 45 metres                        | 95 metres   |
| Up to 6.6 L (4488 g ae/ha)   | 70 metres                        | 160 metres  |



| Horticultural, non-orchard uses: Potatoes |           |           |
|---|-----------|-----------|
| Up to 1.15 L (780 g ae/ha)                | 10 metres | 25 metres |
| Up to 2.4 L (1620 g ae/ha)                | 30 metres | 40 metres |

## Aerial application

DO NOT apply by aerial application unless the following requirements are met:

- Spray droplets not smaller than a VERY COARSE (VC) spray droplet size category.
- Release heights 5 metres or lower above the target canopy
- Minimum distances between the application site and downwind sensitive aquatic and wetland areas including aquacultural ponds, surface streams and rivers (see Aquatic 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for aircraft') are observed.
- Minimum distances between the application site and downwind sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat (see Terrestrial 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for aircraft') are observed. The buffer zones provide guidance but may not always be completely protective of all agricultural crops.

### **BUFFER ZONES FOR AIRCRAFT: 3 metre release height or lower above the target canopy**

| <b><u>Application rate (/ha)</u></b>                            | Downwind mandatory no spray zone |             |            |             |
|---|----------------------------------|-------------|------------|-------------|
|   | Fixed wing                       |             | Helicopter |             |
|   | Aquatic                          | Terrestrial | Aquatic    | Terrestrial |
| Dryland cropping: winter cereals and fallows                    |                                  |             |            |             |
| Up to 0.23 L (155 g ae/ha)                                      | 20 metres                        | 35 metres   | 25 metres  | 35 metres   |
| Up to 0.8 L (560 g ae/ha)                                       | 60 metres                        | 90 metres   | 60 metres  | 80 metres   |
| Dryland cropping: preparatory spray and harvest aid application |                                  |             |            |             |
| Up to 1.7 L (1140 g ae/ha)                                      | 100 metres                       | 150 metres  | 90 metres  | 140 metres  |
| Tropical & subtropical uses: Sugarcane                          |                                  |             |            |             |
| Up to 1.15 L (780 g ae/ha)                                      | 75 metres                        | 110 metres  | 70 metres  | 100 metres  |
| Up to 2.4 L (1620 g ae/ha)                                      | 130 metres                       | 250 metres  | 120 metres | 180 metres  |

### **PASTURE APPLICATION BY AIR – 3.0 m release height**

**NOTE: Some rates ARE NOT SUPPORTED for Fixed Wing Aircraft and MUST NOT be applied by Fixed Wing Aircraft.**

#### **Application rate 4500 g ae/ha, VERY COARSE droplet size, Aerial application**

##### **Aquatic Protection**

|   | Downwind no-spray zone |            |
|---|------------------------|------------|
|   | Fixed Wing             | Helicopter |
| Wind speed range at time of application |                        |            |
| From 3 to 7 kilometres per hour         | 475 metres             | 300 metres |
| From 7 to 14 kilometres per hour        | 475 metres             | 300 metres |

##### **Terrestrial protection (2,4-D ester formulations)**

|   | Downwind no-spray zone |            |
|---|------------------------|------------|
|   | Fixed wing             | Helicopter |
| Wind speed range at time of application |                        |            |
| From 3 to 7 kilometres per hour         | 750 metres             | 475 metres |
| From 7 to 14 kilometres per hour        | Not supported          | 525 metres |

#### **Application rate 3180 g ae/ha, VERY COARSE droplet size, Aerial application**

##### **Aquatic Protection**

|   | Downwind no-spray zone |            |
|---|------------------------|------------|
|   | Fixed Wing             | Helicopter |
| Wind speed range at time of application |                        |            |
| From 3 to 7 kilometres per hour         | 325 metres             | 190 metres |
| From 7 to 14 kilometres per hour        | 325 metres             | 210 metres |

##### **Terrestrial protection (2,4-D ester formulations)**

|   | Downwind no-spray zone |            |
|---|------------------------|------------|
|   | Fixed wing             | Helicopter |
| Wind speed range at time of application |                        |            |
| From 3 to 7 kilometres per hour         | 575 metres             | 575 metres |
| From 7 to 14 kilometres per hour        | 625 metres             | 625 metres |

**BUFFER ZONES FOR AIRCRAFT: 5 metre release height or lower above the target canopy**

| <b><u>Application rate (/ha)</u></b>                                   | <b>Downwind mandatory no spray zone</b> |                    |                   |                    |
|--|---|--------------------|-------------------|--------------------|
|  | <b>Fixed wing</b>                       |                    | <b>Helicopter</b> |                    |
|  | <b>Aquatic</b>                          | <b>Terrestrial</b> | <b>Aquatic</b>    | <b>Terrestrial</b> |
| <b>Dryland cropping: winter cereals and fallows</b>                    |   |                    |                   |                    |
| Up to 0.23 L (155 g ae/ha)   | 40 metres                               | 65 metres          | 50 metres         | 65 metres          |
| Up to 0.8 L (560 g ae/ha)  | 110 metres                              | 160 metres         | 95 metres         | 130 metres         |
| <b>Dryland cropping: preparatory spray and harvest aid application</b> |   |                    |                   |                    |
| Up to 1.7 L (1140 g ae/ha)   | 190 metres                              | 350 metres         | 150 metres        | 210 metres         |
| <b>Tropical &amp; subtropical uses: Sugarcane</b>                      |   |                    |                   |                    |
| Up to 1.15 L (780 g ae/ha)   | 140 metres                              | 220 metres         | 120 metres        | 160 metres         |
| Up to 2.4 L (1620 g ae/ha)   | 300 metres                              | 550 metres         | 190 metres        | 300 metres         |

**PASTURE APPLICATION BY AIR – 5.0 m release height****NOTE: Some rates ARE NOT SUPPORTED for Fixed Wing Aircraft and MUST NOT be applied by Fixed Wing Aircraft.****Application rate 4500 g ae/ha, VERY COARSE droplet size, Aerial application****Aquatic Protection**

|  | <b>Downwind no-spray zone</b> |                   |
|--|-------------------------------|-------------------|
|  | <b>Fixed Wing</b>             | <b>Helicopter</b> |
| <b>Wind speed range at time of application</b> |                               |                   |
| From 3 to 7 kilometres per hour                | 750 metres                    | 475 metres        |
| From 7 to 14 kilometres per hour               | Not supported                 | 525 metres        |

**Terrestrial protection (2,4-D ester formulations)**

|  | <b>Downwind no-spray zone</b> |                   |
|--|-------------------------------|-------------------|
|  | <b>Fixed wing</b>             | <b>Helicopter</b> |
| <b>Wind speed range at time of application</b> |                               |                   |
| From 3 to 7 kilometres per hour                | Not supported                 | 750 metres        |
| From 7 to 14 kilometres per hour               | Not supported                 | Not supported     |

**Application rate 3180 g ae/ha, VERY COARSE droplet size, Aerial application****Aquatic Protection**

|  | <b>Downwind no-spray zone</b> |                   |
|--|-------------------------------|-------------------|
|  | <b>Fixed Wing</b>             | <b>Helicopter</b> |
| <b>Wind speed range at time of application</b> |                               |                   |
| From 3 to 7 kilometres per hour                | 575 metres                    | 350 metres        |
| From 7 to 14 kilometres per hour               | 650 metres                    | 350 metres        |

**Terrestrial protection (2,4-D ester formulations)**

|  | <b>Downwind no-spray zone</b> |                   |
|--|-------------------------------|-------------------|
|  | <b>Fixed wing</b>             | <b>Helicopter</b> |
| <b>Wind speed range at time of application</b> |                               |                   |
| From 3 to 7 kilometres per hour                | Not supported                 | 575 metres        |
| From 7 to 14 kilometres per hour               | Not supported                 | 625 metres        |