



## SAFETY DATA SHEET ZONDA STUMP GEL

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

#### 1.1 Identifiers

Product name: **ZONDA STUMP GEL**

Other Name(s): Non-Selective Herbicide Gel containing Picloram potassium salt

#### 1.2 Recommended use of the chemical and restrictions on use

Product Use: Herbicidal Gel for direct application onto stumps and cut stems

#### 1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited  
Address: 20 Jean Batten Drive Mt Maunganui, 3116  
Telephone: 0800 220 002  
Email: [info@grosafe.co.nz](mailto:info@grosafe.co.nz)

**EMERGENCY PHONE NUMBER: 0800 CHEMCALL (0800 243 622)**

### SECTION 2: HAZARD IDENTIFICATION

#### 2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

HSNO Substance Approval: HSR101073

Classifications: Skin Sensitisation Category 1; Hazardous to soil organisms.

#### 2.2 Label elements:

##### Pictograms:



**Signal Word: WARNING**

##### Hazard statements:

H317 May cause an allergic skin reaction  
H422 Toxic to the soil environment

### Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017 (EPA Consolidation 30 April 2021)

Keep out of reach of children

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

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto waterways.

#### Precautionary statements:

##### Prevention

|      |  |
|------|--|
| P103 | Read label before use.   |
| P261 | Avoid breathing vapours  |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment.                                      |
| P280 | Wear protective gloves   |

##### Response

|           |  |
|-----------|--|
| P302+P353 | IF ON SKIN: Wash with plenty of soap and water.              |
| P321      | Specific treatment – see first aid instructions on the label |
| P333+P313 | If skin irritation occurs: Get medical advice / attention    |
| P363      | Wash contaminated clothing before reuse                      |
| P391      | Collect spillage.  |

##### Storage

##### Disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients                       | CAS         | Proportion<br>% w/w |
|-----------------------------------|-------------|---------------------|
| Picloram- potassium salt          | 2545-60-0   | 5.0                 |
| Other non – hazardous ingredients | Proprietary | balance             |

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Information:

For advice contact 0800 CHEMCALL (0800 243622). Have label or Safety Data Sheet at hand.

**Ingestion:** If swallowed, rinse mouth with water. Do not induce vomiting. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if irritation persists.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

### 4.2 Symptoms caused by exposure

May cause an allergic skin reaction

### 4.3 Medical attention and special treatment

Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use water spray or fog, foam, CO<sub>2</sub> or dry chemical as appropriate for surrounding materials. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

Addition of water may cause excessive foaming.

### 5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/harmful and/or irritating if inhaled.

Vapours may be toxic – use of self-contained breathing apparatus may be required.

Evacuate people to safe area upwind of fire.

### 5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing and eye/hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

Spills may be slippery and should be cleaned up immediately.

### 6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### 6.3 Methods and materials for containment and cleaning up

Contain spilled material. For small spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large spills, recover into labelled containers then absorb remaining gel and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before use.

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

When applying product avoid inhalation of vapours. Wear protective equipment.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not eat, drink or smoke when using.

Keep containers away from foodstuffs, seeds, fertilisers and other pesticides.

### 7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 1000 kg or more of this product requires an emergency response plan, secondary containment (and preferably also signage).

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**8.1 Control parameters – exposure standards, biological monitoring**

| Ingredient              | IDLH          | Occupational Exposure band Rating | Occupational Exposure band Limit | TEEL-1,2,3    |
|-------------------------|---------------|-----------------------------------|----------------------------------|---------------|
| Picloram potassium salt | Not available | E                                 | <0.01mg/m <sup>3</sup>           |               |
| Zonda Stump Gel         |               |                                   |                                  | Not available |

**8.2 Engineering controls**

Recommended to use in well-ventilated area or outdoors.

**8.3 Personal protective equipment (PPE)**

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**,

Occupational Protective Clothing: **AS/NZS 4501**,

Industrial Eye Protection: **AS1336** and **AS/NZS 1337**,

Occupational Protective Footwear: **AS/NZS2210**.

**Eye/Face Protection:** Wear chemical splash goggles if eye contact with product is possible.

**Skin Protection:** Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. Ensure all skin areas are covered.

**Respirator:** Use outdoors in well-ventilated area or use local exhaust ventilation

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|  |                              |
|--|------------------------------|
| Appearance                             | Clear Gel                    |
| Odour                                  | Non-specific odour           |
| Odour threshold                        | Not known                    |
| pH                                     | 7.0 – 9.0                    |
| Melting/Freezing Point                 | No data available            |
| Boiling Point /Range                   | No data available            |
| Flash point                            | Not flammable                |
| Flammability (solid, gas)              | Not applicable               |
| Vapour Pressure                        | No data available            |
| Vapour density                         | No data available            |
| Specific gravity/bulk density          | 1.03g/ml (approx.)           |
| Solubility                             | Soluble in water             |
| Partition Co-efficient n-octanol/water | LogP = 0.15 (low) - picloram |
| Auto-ignition temperature              | Not applicable               |
| Decomposition temperature              | No data available            |
| Viscosity                              | Not applicable               |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

### 10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

### 10.3 Conditions to Avoid

Avoid storage in direct sunlight, exposure to heat or contact with incompatible materials.

### 10.4 Incompatible materials and possible hazardous reactions

Strong acids, strong alkalis and oxidising agents such as chlorine compounds etc.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Smoke, carbon oxides and other unspecified compounds.

### 10.6 Polymerisation

Not known to occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

### 11.2 Toxicological information

|   |   |
|---|---|
| Acute oral toxicity:                                      | Not classified  |
| Acute dermal toxicity:                                    | Not classified.   |
| Acute inhalation toxicity:                                | Not classified.   |
| Skin corrosion/irritation                                 | Not classified.   |
| Serious eye damage/irritation                             | Not classified.   |
| Respiratory or skin sensitisation                         | Classified as a respiratory or skin contact sensitiser.   |
| Germ cell mutagenicity:                                   | No ingredients identified as presumed mutagens.   |
| Carcinogenicity   | No ingredients identified as presumed mutagens  |
| Reproductive toxicity                                     | No ingredients identified / suspected of damaging fertility or the unborn child.                          |
| Specific target organ toxicity – single/repeated exposure | Not classified for adverse effects to organs or systems from single, prolonged or repeated oral exposure. |
| Narcotic effects  | No ingredient identified as causing narcotic effects.   |

### 11.3 Toxicological data:

|   |   |
|---|---|
| Picloram, potassium salt<br>(Data ex PubChem) | Oral, LD <sub>50</sub> (rat) 686mg/kg, LD <sub>50</sub> (mouse)<br>1265mg/kg LD <sub>50</sub> (rabbit) 2g/kg<br>Inhalation, LC <sub>50</sub> 4 h (rat) >165g/m <sup>3</sup> |
|---|---|

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as ecotoxic to the soil environment.

### 12.2 Environmental Fate

Not specified for Picloram, potassium salt

*Note for Picloram*

*Breakdown in soil and groundwater: Biodegradable - Soil DT50 30-90days (typical).*

*Bioaccumulation: Not specified*

*Partition coefficient (octanol/water): LogP = 0.15 (low)*

*Soil mobility: Mobile in soil.*

### 12.3 Ecotoxicity data:

Picloram, potassium salt  
(Data ex PubChem & US EPA)

Fish: *Rainbow trout* LC<sub>50</sub> (96 hr) 10-68mg/L  
Crustacea: *Daphnia spp* EC<sub>50</sub> (48 h) 68.3ppm  
Alga: EC<sub>50</sub> (5D) 65ppm  
Bees: LD<sub>50</sub> (48h) >1000ppm  
Bird: *Chicks* LC<sub>50</sub> 10000ppm

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Dispose of to an approved landfill or waste management facility in accordance with local regulations.

### 13.2 Container Disposal

Empty packaging should be disposed of to an approved (pesticide) recycler or crushed and sent to approved landfill. Do not use packaging for storage of other products

## SECTION 14: TRANSPORT INFORMATION

### Road and Rail Transport:

Not classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

### Marine Transport (IMO/IMDG):

Not classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport (ICAO/IATA):

Not classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

|                                      |     |
|--------------------------------------|-----|
| <b>UN Number:</b>                    | N/A |
| <b>UN Proper Shipping Name:</b>      | N/A |
| <b>Transport hazard class(es)</b>    | N/A |
| <b>Packing Group:</b>                | N/A |
| <b>HAZCHEM:</b>                      | N/A |
| <b>Special Precautions for User:</b> | N/A |
| <b>IMDG Marine pollutant:</b>        | N/A |
| <b>Transport in Bulk:</b>            | N/A |

## SECTION 15: REGULATORY INFORMATION

### 15.1 Hazardous Substances and New Organisms (HSNO) Act 1996

Classified as a hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Approved substance number: HSR 101073

### 15.2 ACVM Act 1997

The product is exempt from registration under ACVM Regulations. Refer to <https://www.mpi.govt.nz/agriculture/agricultural-compounds-vet-medicines>

### 15.3 NZ Health and Safety at Work (Hazardous Substances) Regulations 2017

([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

Certified Handler – not required

Quantity to be secured when left unattended – no limit

Location compliance certificate – not required

Emergency Management – fire extinguishers – not required

Emergency Management – signage – not required

Emergency Management - secondary containment and emergency response plan threshold quantity – 1000kg

Tracking hazardous substances – not required

### 15.4 Additional Controls

The substance must not be applied onto or into waterways

Do not apply on or around food or animal feed crops or areas to be grazed by animals

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

|                |  |
|----------------|--|
| SDS issued     | 24 May 2022                                  |
| Version        | 2  |
| SDS supersedes | 1 February 2015                              |
| Reason issued  | Update of SDS format and product information |

### 16.2 Abbreviations

|                   |   |
|-------------------|---|
| ADI               | Acceptable Daily Intakes  |
| CAS number        | Chemical Abstracts Service Registry Number  |
| CCID              | Chemical Classification Identification Database   |
| EPA               | Environmental Protection Authority  |
| ErC <sub>50</sub> | Half maximal Effective Concentration  |
| GHS               | Globally Harmonized System of Classification and Labelling of Chemicals   |
| Hazchem Code      | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| HSNO              | Hazardous Substances and New Organisms  |
| HS                | Health and Safety   |
| HSR               | Hazardous Substances Register   |
| IARC              | International Agency for Research on Cancer   |
| LC <sub>50</sub>  | Median Lethal Concentration   |
| LD <sub>50</sub>  | Median Lethal Dose  |

|                  |                                    |
|------------------|------------------------------------|
| <b>SDS</b>       | Safety Data Sheets                 |
| <b>NOAEL</b>     | No Observable Adverse Effect Level |
| <b>NOEL</b>      | No Observable Effect Level         |
| <b>NOS</b>       | Not otherwise specified            |
| <b>STEL</b>      | Short Term Exposure Limit          |
| <b>SWA</b>       | Safety Work Australia              |
| <b>TWA</b>       | Time-Weighted Average              |
| <b>UN Number</b> | United Nations Number              |

### **16.3 References**

NZ EPA CCID and Approved Substance databases  
PPDB- Pesticides Properties Database  
ECHA – European Chemical Agency

### **16.4 OTHER**

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet