


FlagFL™

Section 1: Identification

Product name:	FlagFL™
Other names:	Flagfl; Chloridazon 430SC
Recommended use:	Pre and post emergence herbicide for weed control in fodder beet, red beet, sugar beet, onions, chives, leeks and mangolds.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport Christchurch New Zealand Phone: 03 372 0800 Fax: 03 344 5195
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poisons Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

HSNO Approval:	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996. HSR101123
Hazardous classifications:	Skin sensitisation Category 1, Hazardous to soil organisms, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.
Pictograms:	
Signal word:	WARNING
Hazard statements:	H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment.
Prevention statements:	P103 Read label before use. P261 Avoid breathing mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear eye protection/face protection.
Response statements:	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice. P363 Wash contaminated clothing before reuse. P391 Collect spillage.

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Storage statement/s:	-												
Disposal statement/s:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.												
Additional label statements:	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.												
Section 3: Composition/information on ingredients													
Chemical identity of ingredients with health or environmental hazards:	<table border="1"> <thead> <tr> <th><i>Ingredient</i></th> <th><i>CAS No.</i></th> <th><i>Proportion w/w</i></th> </tr> </thead> <tbody> <tr> <td>Chloridazon</td> <td>1698-60-8</td> <td>37</td> </tr> <tr> <td>Other ingredients</td> <td>Trade secret</td> <td>balance</td> </tr> <tr> <td colspan="3">* chloridazon 430 g/L</td> </tr> </tbody> </table>	<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>	Chloridazon	1698-60-8	37	Other ingredients	Trade secret	balance	* chloridazon 430 g/L		
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Section 4: First-aid measures													
First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre tel 0800 POISON [0800 764 766] or a doctor.												
Inhalation:	Remove person to fresh air and keep at rest in a position comfortable for breathing until recovered. Get medical advice if person feels unwell.												
Ingestion:	Rinse mouth. Get medical advice if person feels unwell.												
Skin contact:	Wash with soap and water. Get medical advice if irritation or rash persists.												
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.												
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.												
Advice to doctor:	Treat symptomatically.												
Section 5: Fire-fighting measures													
Flammability:	Non-flammable.												
Appropriate extinguishing media:	Foam, water spray, dry powder, carbon dioxide (CO ₂).												
Combustion products:	Smoke, oxides of carbon and other unidentified compounds.												
Special protective equipment and precautions for fire-fighters:	Wear protective equipment including self-contained breathing apparatus (SCBA).												
HAZCHEM code:	3Z												
Section 6: Accidental release measures													
Personal precautions:	Wear protective equipment; chemical resistant coveralls, boots, gloves, eye protection. Wear respiratory protection if there is a risk of contact with vapours or mist.												

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Environmental precautions:	Contain spill. Prevent from entering waterways, drains, sewers. Notify local authorities if contamination of waterway.										
Procedure for clean up:	Contain and recover liquid into labelled container for re-use or disposal. Absorb residue or small spills with suitable material, e.g. sand, vermiculite. Dispose of contaminated waste to approved landfill.										
Section 7: Handling and storage											
Safe handling:	Read label before use. Wear personal protective equipment. To be used only by suitably qualified person and in compliance with HSNO Controls.										
Safe storage:	Keep out of reach of children. Keep container tightly closed when not in use. Store in secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version of the NZS 8409 Management of Agrichemicals.										
Section 8: Exposure controls/personal protection											
Occupational exposure limits:	<table border="1"> <thead> <tr> <th><i>Ingredient</i></th> <th><i>Exposure route</i></th> <th><i>WES-TWA</i></th> <th><i>WES-STEL</i></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>			<i>Ingredient</i>	<i>Exposure route</i>	<i>WES-TWA</i>	<i>WES-STEL</i>	-	-	-	-
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-	-	-	-								
Biological limit value:	Not set.										
Engineering controls:	Use with adequate ventilation, i.e. outdoors.										
Respiratory protection:	Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.										
Hand protection:	Waterproof gloves, e.g. PVC, nitrile.										
Eye protection:	Chemical goggles, safety glasses with side shields or face shield.										
Skin protection:	Chemical resistant coveralls and closed in boots.										
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before rest breaks or meals and after work. Wash protective clothing daily after work.										
Section 9: Physical and chemical properties											
(a) Appearance:	Yellow beige liquid suspension										
(b) Odour:	Slight										
(c) Odour threshold:	Not available										
(d) pH:	6.0 – 8.0										
(e) Melting point/freezing point:	Not available										
(f) Initial boiling point and boiling range:	Not available										
(g) Flash point:	Non-flammable										
(h) Flammability (solid, gas):	Not applicable										

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(i)	Upper/lower flammability or explosive limits:	Not applicable
(j)	Vapour pressure:	Not available
(k)	Vapour density:	1.15 -1.20
(l)	Relative density:	Forms suspension in water
(m)	Solubility (ies):	
(n)	Partition coefficient: n-octanol/water:	Not available
(o)	Auto-ignition temperature:	Not available
(p)	Decomposition temperature:	Not available
(q)	Kinematic viscosity:	
Section 10: Stability and reactivity		
Stability of the substance:		Stable under normal conditions of storage and use.
Conditions to avoid:		No information available.
Incompatible materials:		Oxidising compounds.
Hazardous polymerisation:		Not known to occur.
Section 11: Toxicological information		
		Toxicity classifications determined by assessment of the components in the formulated mixture.
(i)	Acute toxicity:	Not classified as being acutely toxic.
(ii)	Aspiration hazard:	Not classified as aspirant hazard.
(iii)	Respiratory irritation:	Not classified.
(iv)	Skin corrosion / irritation:	May be mildly irritating to skin.
(v)	Serious eye damage / irritation:	May cause mild transient irritation to eyes.
(vi)	Respiratory or skin sensitisation:	Chloridazon identified as contact sensitizer.
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.
(ix)	Reproductive toxicity:	Not classified for fertility or developmental effects.
(x)	Specific organ toxicity:	Not classified as causing adverse effects to organs.
(xi)	Narcotic effects:	Not classified for narcotic effects.
Toxicological information:		Chloridazon Oral LD ₅₀ (rat) 2140 mg/kg bodyweight
Section 12: Ecological information		
		Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
(a)	Aquatic toxicity:	Very toxic to aquatic life and with long lasting effects.

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(b)	Soil environment	Very toxic to the soil environment.
(c)	Terrestrial vertebrate toxicity:	Not classified.
(d)	Terrestrial invertebrate toxicity:	Not classified.
(e)	Persistence and degradability:	Soil DT ₅₀ : >30 days
(f)	Potential to be bioaccumulative:	Not identified as being bioaccumulative.
(g)	Mobility in soil:	Product is suspension in water.
Ecotoxicological information:		Chloridazon <i>Selenastrum capricornutum</i> (green algae) EC ₅₀ (5 day) 0.17 mg/L Trout LC ₅₀ (96 h) 32 - 46 mg/L <i>Brassica oleracea</i> (cabbage) Seedling emergence, 21 day EC ₂₅ 0.027 mg/kg soil
Section 13: Disposal considerations		
Product disposal:		Dispose of this product only by using according to the label or through Agrecovery chemical disposal or to an approved landfill.
Container disposal:		Dispose through Agrecovery if possible. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply, drains, streams or sewer with product or empty container.
Section 14: Transport information		
UN number:	3082	
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORIDAZON 43%)	
UN class:	9	
Packing group:	III	
Subsidiary risk:	-	
HAZCHEM:	3Z	
Environmental hazards:	Marine Pollutant	
Special precautions:	-	
This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information		
Section 15: Regulatory information		
HSNO Act 1996:	Approved substance under the HSNO Act 1996.	
HSNO approval number:	HSR101123; RYDAZIN	
Tolerable exposure limit / environmental exposure limit:	Not set	
HSNO controls:	See www.epa.govt.nz	
Additional controls:	Do not apply onto or into water.	



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ACVM Act 1997:	Registered tradename product under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P9760
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	5/08/2021
Reason for reissue:	Review and update SDS, e.g. GHS descriptions.
Replaces:	SDS dated 18/3/2019
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.