

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

1/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name SAKURA 850 WG
Product code (UVP) 79642040

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide
EPA-Nr. HSR101273

1.3 Details of the supplier of the safety data sheet

Supplier Bayer New Zealand Limited
3 Argus Place, Hillcrest
Auckland 0627
New Zealand
Telephone 0800 428 246
Telefax (09) 441 8645

1.4 Emergency telephone no.

Emergency Number 0800 734 607 (24hr)
Global Incident Response Hotline (24h) +1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 as amended

6.5B
H317 May cause an allergic skin reaction.
6.8B
H361 Suspected of damaging fertility or the unborn child if swallowed.
6.9A
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
9.1A
H410 Very toxic to aquatic life with long lasting effects.
9.2A
H421 Very toxic to the soil environment.

2.2 Label elements

Labelling in accordance with the Hazardous Substances (Safety Data Sheets) Notice 2017 as

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

2/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

amended

Hazard label for supply/use required.



Signal word: Danger

Hazard statements

H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child if swallowed.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
H421 Very toxic to the soil environment.

Precautionary statements

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
P391 Collect spillage.
P321 Specific treatment (see supplemental first aid instructions on this label).
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Water dispersible granules (WG)
Pyroxasulfone 850g/kg

Hazardous components

Name	CAS-No.	Conc. [%]
Pyroxasulfone	447399-55-5	85
Sodium dioctyl sulphosuccinate	577-11-7	<= 5

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

3/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

Skin contact	Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically. There is no specific antidote. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

Contact the National Poisons and Hazardous Chemicals Information center in Dunedin, PO Box 913, Dunedin. Phone 0800 POISON (0800 764 766).

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO₂), Foam, Sand

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen fluoride, Hydrogen cyanide (hydrocyanic acid)

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

4/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep unauthorized people away. Avoid dust formation.

6.2 Environmental precautions Contain contaminated water and fire fighting water. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

Additional advice Inform appropriate authorities immediately if contamination occurs.

6.4 Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Avoid dust formation. Ensure adequate ventilation.

Hygiene measures Avoid contact with skin, eyes and clothing. Wear elbow length PVC gloves when handling product or treated seed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep out of the reach of children. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Diatomaceous earth	61790-53-2	10 mg/m ³ (TWA)	06 2016	NZ OEL
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m ³ (TWA)	06 2016	NZ OEL

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

5/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

(Respirable dust.)				
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8.2 Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	Use respiratory protection for organic vapours. Self-contained breathing apparatus (EN 133)
Hand protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin and body protection	Wear standard coveralls and Category 3 Type 4 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	water-dispersible granules, cylindrical
Colour	light brown
Minimum ignition energy	> 30 - < 100 mJ measured without induction
Vapour pressure	0.0000024 Pa at 25 °C The value mentioned relates to the active ingredient.
Partition coefficient: n-octanol/water	log Pow: 2.39 at 25 °C The value mentioned relates to the active ingredient.
Partition coefficient: n-octanol/water	Pyroxasulfone: log Pow: 2.39 at 25 °C at pH 8.7
Dust content	

9.2 Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

6/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

10.3 Possibility of hazardous reactions	No hazardous reactions known.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible materials	Strong acids, Strong bases
10.6 Hazardous decomposition products	Thermal decomposition can lead to release of: Oxides of carbon Nitrogen oxides (NOx) Sulphur oxides Hydrogen fluoride Hydrogen cyanide (hydrocyanic acid)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 (Rat) > 2,000 mg/kg
Acute inhalation toxicity	LC50 (Rat) 5.8 mg/l Exposure time: 4 h
Acute dermal toxicity	LD50 (Rat) > 2,000 mg/kg
Skin irritation	No skin irritation (Rabbit)
Eye irritation	slight irritation (Rabbit)
Sensitisation	Sensitising (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Pyroxasulfone: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Pyroxasulfone caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver, Kidney, urinary bladder, Heart.

Assessment mutagenicity

Pyroxasulfone was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Pyroxasulfone was not carcinogenic in lifetime feeding studies in mice. Pyroxasulfone caused an increased incidence of tumours in rats in the following organ(s): urinary bladder. The tumours seen with Pyroxasulfone were caused through a non-genotoxic mechanism, which is not relevant at low doses.

Assessment toxicity to reproduction

Pyroxasulfone did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Pyroxasulfone did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

7/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

Further information

No further toxicological information is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) > 2.2 mg/l Exposure time: 96 h
	LC50 (Lepomis macrochirus (Bluegill sunfish)) > 2.8 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) > 4.4 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00079 mg/l Exposure time: 96 h
Toxicity to other organisms	LD50 (Colinus virginianus (Bobwhite quail)) > 2,250 mg/kg LD50 (Apis mellifera (bees)) 0.1 mg/bee Exposure time: 48 h

12.2 Persistence and degradability

Biodegradability	No data available
Biodegradability	Pyroxasulfone: Not rapidly biodegradable
Koc	Pyroxasulfone: Koc: 95

12.3 Bioaccumulative potential

Bioaccumulation	No data available
Bioaccumulation	Pyroxasulfone: Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil	Pyroxasulfone: Mobile in soils
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12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment	Pyroxasulfone: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
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12.6 Other adverse effects

Additional ecological information	No other effects to be mentioned.
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

8/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

Product	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Contaminated packaging	Triple rinse containers. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

SECTION 14: TRANSPORT INFORMATION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

ADR/RID/ADN

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYROXASULFONE MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Hazchem Code	2Z

IMDG

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYROXASULFONE MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYROXASULFONE MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SAFETY DATA SHEET



SAKURA 850 WG

Version 1 / NZ
102000023097

9/9
Revision Date: 10.04.2018
Print Date: 10.04.2018

Further information

HSNO approval-Nr.	HSR101273
HSNO Controls	See www.epa.govt.nz
ACVM Reg.	P9449
ACVM Condition	See www.foodsafety.govt.nz

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.