

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification, but which may contribute to the overall hazards of the substance or mixture.



Section 3: Composition and information on ingredients

Chemical Nature	Crop protection product, fungicide, Emulsifiable concentrate (EC)	
Hazardous ingredients		
Chemical Identity	CAS No	
Pyraclostrobin - Content (W/W): 24 %	175013-18-0	Acute Tox.: Cat. 3 (Inhalation - mist) Skin Corr./Irrit.: Cat. 2 STOT SE: Cat. 3 (irr. to respiratory syst.) Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 1 M-factor acute: 100 M-factor chronic: 100
Solvent naphtha - Content (W/W): < 75 %	64742-94-5	Asp. Tox.: Cat. 1 Aquatic Acute: Cat. 2 Aquatic Chronic: Cat. 2

Section 4: First aid measures

General Advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

Skin Contact:

Immediately wash thoroughly with soap and water, seek medical attention.

Eye Contact:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Note to Physician:

Symptoms:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known. Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Fire fighting measures

Suitable Extinguishing Equipment:

Water spray, foam, dry powder, carbon dioxide.

Specific Hazards Arising from the Chemical:	Carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds, sulfur oxides. The substances/groups of substances mentioned can be released in case of fire.
Special Protective Equipment and Precautions for Fire Fighters:	Wear full protective clothing and self-contained breathing apparatus and Chemical-protective clothing.
Further Information:	In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Keep containers cool by spraying with water if exposed to fire.

Section 6: Accidental release measures

Personal precautions:	Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.
Environmental precautions	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
Methods for cleaning up or taking up:	For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). For large amounts: Dike spillage. Pump off product.
Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.	

Section 7: Handling and storage

Precautions for Safe Handling:	No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Protection against fire and explosion: Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.
Storage:	Segregate from foods and animal feeds. Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Section 8: Exposure controls and personal protection

<u>Components with occupational exposure limits</u>	
Personal protective equipment:	Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
Hand protection:	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.
Eye Protection:	Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body Protection:	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
General safety and hygiene measures:	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

Section 9: Physical and chemical properties

Appearance:	Brown Yellow Liquid	Boiling Point/Range:	approx. 244 - 292 °C (solvent)
Odour:	Moderate odour of the solvent contained in product.	Solidification temperature:	Approx. -10 °C (solvent)
pH:	Approx. 6 – 8 (CIPAC standard water D, 1%(m),20 °C)	Evaporation rate:	Not applicable
Flammability (solid/gas):	Not Highly Flammable	Specific Gravity or Density:	Approx. 1.06 g/cm ³ (20 °C)
Flash Point:	Not available	Explosive Properties:	Not explosive
Lower/Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	Oxidising Properties:	Not oxidising
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	Vapour Pressure:	Approx. 0.003 hPa (20 °C) (solvent)
		Relative vapour density (air):	Not applicable
		Solubility in water:	Emulsifiable
		Partitioning coefficient n-octanol/water (log Pow)	Not applicable
Other Information:			
If necessary, information on other physical and chemical parameters is indicated in this section.			

Section 10: Stability and reactivity

Conditions to avoid:	See SDS section 7 – Handling and Storage
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Substances to avoid:	Strong acids, strong bases, strong oxidizing agents
Hazardous reactions:	No hazardous reactions if stored and handled as prescribed/indicated.

Section 11: Toxicological information

Health Effects from likely Routes of Exposure:	
Acute toxicity:	<p>Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation.</p> <p>Experimental/calculated data: LD50 rat (oral): > 500 mg/kg (OECD Guideline 401) LC50 rat (by inhalation): 1.213 mg/l 4 h (OECD Guideline 403) An aerosol was tested. LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402) No mortality was observed.</p>

Irritation:	<p>Assessment of irritating effects: Skin contact causes irritation. Eye contact causes irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.</p> <p>Experimental/calculated data: Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404) Serious eye damage/irritation rabbit: (OECD Guideline 405) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.</p>
Respiratory/Skin sensitization:	<p>Assessment of sensitization: There is no evidence of a skin-sensitizing potential.</p> <p>Experimental/calculated data: Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)</p>
Germ cell mutagenicity:	<p>Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components.</p>
Carcinogenicity:	<p>Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.</p>
Reproductive toxicity:	<p>Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.</p>
Developmental toxicity:	<p>Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.</p>
Specific target organ toxicity (single exposure):	<p>Assessment of STOT single: Causes temporary irritation of the respiratory tract.</p> <p>Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.</p>
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	<p>Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.</p> <p>Information on: Pyraclostrobin</p> <p>Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.</p>
Aspiration hazard:	<p>May also damage the lung at swallowing (aspiration hazard).</p>
Other relevant toxicity information:	<p>Misuse can be harmful to health.</p>

Section 12: Ecological information

Ecotoxicity:	<p>Toxicity to fish: Very toxic to aquatic life with long lasting effects. LC50 (96 h) 0.017 mg/l, <i>Oncorhynchus mykiss</i> (OECD Guideline 203, static)</p> <p>Aquatic invertebrates: EC50 (48 h) 0.0649 mg/l, <i>Daphnia magna</i> (OECD Guideline 202, part 1, static)</p> <p>Aquatic plants: EC50 (72 h) 3.32 mg/l (growth rate), <i>Pseudokirchneriella subcapitata</i> (OECD Guideline 201)</p>
Mobility:	<p>Assessment transport between environmental compartments: The product has not been tested. The statement has been derived from the properties of the individual components.</p> <p>Information on: Pyraclostrobin</p> <p>Assessment transport between environmental compartments: Following exposure to soil, adsorption to solid soil particles is probable, therefore, contamination of groundwater is not expected.</p>

Persistence and degradability:	Assessment biodegradation and elimination (H ₂ O): The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Pyraclostrobin
	Assessment biodegradation and elimination (H ₂ O): Not readily biodegradable (by OECD criteria).
Bioaccumulation potential:	Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Pyraclostrobin
	Bioaccumulation potential: Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD Guideline 305) Accumulation in organisms is not to be expected.
Additional information:	Other ecotoxicological advice: Do not discharge product into the environment without control.

Section 13: Disposal considerations

Must be sent to a suitable incineration plant, observing local regulations.
Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Section 14: Transport information

DOMESTIC TRANSPORT:	
Hazard class: 9	Packing group: III
ID number: UN 3082	Hazard label: 9, EHS
Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Pyraclostrobin, Solvent Naphtha)	Hazchem Code: 3Z
IERG Number: 47	

SEA TRANSPORT: IMDG	
Hazard class: 9	Packing group: III
ID number: UN 3082	Hazard label: 9, EHS
Marine pollutant: YES	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Pyraclostrobin, Solvent Naphtha)

AIR TRANSPORT: IATA/ICAO	
Hazard class: 9	Packing group: III
ID number: UN 3082	Hazard label: 9, EHS
Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Pyraclostrobin, Solvent Naphtha)	
Further information Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packaging's not exceeding 500kg(L) or IBCs.	

Section 15: Regulatory information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

Registration status: Registered

APVMA approval: 85026

Section 16: Any other relevant information

Date of preparation or last revision: August 2018

Source of Data: The information provided in this SDS is sourced from Grow Choice internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

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This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability.

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