

# Safety Data Sheet Dyax

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### 1. Identification

Product identifier used on the label

# Dyax

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, fungicide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

<u>Company:</u> BASF Agricultural Solutions Canada Inc. 510, 28 Quarry Park Boulevard SE, Calgary, AB, T2C 5P9 CANADA

Telephone: +1 (403) 523-3000

#### **Emergency telephone number**

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification PCP# 32746

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

#### **Classification of the product**

Acute Tox.	3 (oral)	Acute toxicity
Acute Tox.	4 (Inhalation - mist)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Repr.	Add. cat. lact.	Reproductive toxicity
STOT SE	3 (irritating to	Specific target organ toxicity — single exposure
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Aquatic Acute Aquatic Chronic	respiratory system) 1 1	Hazardous to the aquatic environment - acute Hazardous to the aquatic environment - chronic
Label elements		
Pictogram:		
Signal Word: Danger		
Hazard Statement: H315 H332 H301 H362 H335 H400 H410	Causes skin irritation. Harmful if inhaled. Toxic if swallowed. May cause harm to breast May cause respiratory irrita Very toxic to aquatic life. Very toxic to aquatic life wi	ation.
Precautionary Stateme P271 P273 P280 P260 P264 P263 P270	Use only outdoors or in a weak of the environment o	onment. st. parts thoroughly after handling. hancy and while nursing.
Precautionary Stateme P312 P301 + P310 P304 + P340 P330 P302 + P352 P391 P308 + P313 P332 + P313 P362 + P364 Precautionary Stateme P403 + P233	Call a POISON CENTER of IF SWALLOWED: Immedia IF INHALED: Remove person breathing. Rinse mouth. IF ON SKIN: Wash with pla Collect spillage. IF exposed or concerned: If skin irritation occurs: Get Take off contaminated clot ents (Storage):	Get medical attention. t medical attention. hing and wash it before reuse.
P403 + P233 P405 Precautionary Stateme P501	Store locked up.	lace. Keep container tightly closed.

### Hazards not otherwise classified

Labeling of special preparations (GHS):

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Product contains the following components and may cause an allergic skin reaction: mixture of: 5chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### 3. Composition / Information on Ingredients

According to Hazardous Products Regulations	(HPR)	(SOR/2015-17)
According to Hazardous r roducts regulations		

#### Pyraclostrobin

CAS Number: 175013-18-0 Content (W/W): 19.19 % Synonym: No data available.

#### Fluxapyroxad

CAS Number: 907204-31-3 Content (W/W): 21.33 % Synonym: No data available.

Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt Content (W/W): 1.0 - 3.0% Synonym: No data available.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts

CAS Number: 68425-94-5 Content (W/W): 1.0 - 3.0% Synonym: Residues (petroleum), catalytic reformer fractionator, sulfonated,polymers with formaldehyde, sodium salts

#### bronopol

CAS Number: 52-51-7 Content (W/W): > 0.0 - < 0.1% Synonym: 2-Bromo-2-nitro-1,3-propanediol; Bronopol

mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS Number: 55965-84-9 Content (W/W): < 0.1% Synonym: 5-Chloro-2-methyl-3(2H)-isothiazolone mixt. with 2-methyl-3(2H)isothiazolone

### 4. First-Aid Measures

#### Description of first aid measures

#### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

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#### If inhaled:

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

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. If irritation develops, seek medical attention.

#### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

#### Indication of any immediate medical attention and special treatment needed

Note to physician Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, hydrogen bromide, nitrogen oxides, halogenated compounds, sulfur oxides, silica compounds, cyanides The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

#### **Further information:**

Keep containers cool by spraying with water if exposed to fire. 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.

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#### 6. Accidental release measures

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

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

#### **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

#### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

#### 7. Handling and Storage

#### Precautions for safe handling

Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

#### 8. Exposure Controls/Personal Protection

# Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

No substance specific occupational exposure limits known.

#### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure

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demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### 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.

### 9. Physical and Chemical Properties

Form: Odour:	liquid fruity
Odour threshold: Colour:	Not determined since harmful by inhalation. beige
pH value:	approx. 6 - 8 ( 20 °C)
Melting point:	approx3 °C Information based on the main component/s.
Boiling point:	approx. 100 °C
Flash point:	No flash point - Measurement made up to the boiling point.
Flammability:	not applicable
Lower 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.
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.
Autoignition:	517 °C
Vapour pressure: Density:	approx. 23 hPa approx. 1.08 g/cm3 ( 20 °C)
Vapour density: Partitioning coefficient n- octanol/water (log Pow):	not applicable not applicable

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Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	approx. 105 - 135 mPa.s
Solubility in water:	dispersible
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.
	The product has not been tested. The statement has been derived from substances/products of a similar structure or
	composition.

### **10. Stability and Reactivity**

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties: not fire-propagating

#### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

#### **Conditions to avoid**

See SDS section 7 - Handling and storage.

#### Incompatible materials

strong acids, strong bases, strong oxidizing agents

#### Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: Of pronounced toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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<u>Oral</u> Type of value: LD50 Species: rat (male) Value: > 50 < 300 mg/kg

Inhalation Type of value: LC50 Species: rat (female) Value: 2.81 mg/l An aerosol was tested.

Dermal Type of value: LD50 Species: rat Value: > 5,000 mg/kg No mortality was observed.

<u>Assessment other acute effects</u> Assessment of STOT single: Causes temporary irritation of the respiratory tract.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to the eyes. Skin contact causes irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

<u>Skin</u> Species: rabbit Result: Irritant.

Eye Species: rabbit Result: non-irritant

#### **Sensitization**

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Species: guinea pig Result: Non-sensitizing.

#### Aspiration Hazard

The product has not been tested. The statement has been derived from the properties of the individual components. No aspiration hazard expected.

#### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

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#### Information on: Fluxapyroxad

Assessment of repeated dose toxicity: Adaptive effects were observed after repeated exposure in animal studies.

#### Information on: Pyraclostrobin

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Target organs: Liver, gastrointestinal tract and nasal cavity

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. Based on available data, the classification criteria are not met.

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#### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Fluxapyroxad

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part.

#### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Fluxapyroxad

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. May cause harm to children via breast-feeding.

#### **Teratogenicity**

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.

Other Information Misuse can be harmful to health.

### **12. Ecological Information**

#### Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Very toxic to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from the properties of the individual components.

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#### Toxicity to fish

Information on: Fluxapyroxad LC50 (96 h) 0.29 mg/l, Cyprinus carpio (Fish test acute, semistatic) LC50 (96 h) 0.546 mg/l, Oncorhynchus mykiss (OECD Guideline 203, static) LC50 (96 h) 1.15 mg/l, Lepomis macrochirus (OECD Guideline 203, static) LC50 (96 h) 0.466 mg/l, Pimephales promelas (OECD Guideline 203, static)

Information on: Pyraclostrobin LC50 (96 h) 0.00616 mg/l, Oncorhynchus mykiss (EPA 72-1, Flow through.)

#### Aquatic invertebrates

Information on: Fluxapyroxad EC50 (48 h) 6.78 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Information on: Pyraclostrobin EC50 (48 h) 0.0157 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) EC50 (96 h) 0.00416 mg/l, Americamysis bahia

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#### Aquatic plants

#### Information on: Fluxapyroxad

EC50 (72 h) 0.70 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201) EC50 (96 h) 0.66 mg/l (growth rate), Pseudokirchneriella subcapitata EC10 (72 h) 0.31 mg/l (growth rate), Pseudokirchneriella subcapitata EC10 (96 h) 0.36 mg/l (growth rate), Pseudokirchneriella subcapitata

Information on: Pyraclostrobin EC10 (7 d) 0.82 mg/l (growth rate), Lemna gibba EC50 (7 d) > 1.007 mg/l (growth rate), Lemna gib

EC50 (7 d) > 1.007 mg/l (growth rate), Lemna gibba EC50 (72 h) 0.011 mg/l (growth rate), Navicula pelliculosa

#### Chronic toxicity to fish

Information on: Fluxapyroxad No observed effect concentration (33 d) 0.0359 mg/l, Pimephales promelas (OECD Guideline 210, Flow through.)

Information on: Pyraclostrobin No observed effect concentration (98 d) approx. 0.00235 mg/l, Oncorhynchus mykiss (OECD Guideline 210, Flow through.)

Chronic toxicity to aquatic invertebrates

Information on: Fluxapyroxad

No observed effect concentration (21 d) 0.5 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

Information on: Pyraclostrobin

No observed effect concentration (21 d) 0.004 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)

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The details of the toxic effect relate to the nominal concentration. No observed effect concentration (31 d) 0.000365 mg/l, Mysidopsis bahia

#### Persistence and degradability

<u>Assessment biodegradation and elimination (H2O)</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Information on: Pyraclostrobin

Not readily biodegradable (by OECD criteria).

Information on: Fluxapyroxad

Not readily biodegradable (by OECD criteria).

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#### **Bioaccumulative potential**

<u>Assessment bioaccumulation potential</u> The product has not been tested. The statement has been derived from the properties of the individual components.

**Bioaccumulation potential** 

Information on: Pyraclostrobin

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD Guideline 305) Accumulation in organisms is not to be expected.

Information on: Fluxapyroxad

Bioconcentration factor: 36 - 37 (28 d), Lepomis macrochirus (OECD Guideline 305) Does not accumulate in organisms.

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#### Mobility in soil

<u>Assessment transport between environmental compartments</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Pyraclostrobin

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: Fluxapyroxad

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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#### **Additional information**

Other ecotoxicological advice: Do not discharge product into the environment without control.

#### 13. Disposal considerations

#### Waste disposal of substance:

See product label for disposal and recycling instructions.

#### Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

#### 14. Transport Information

<b>Land transport</b> TDG	
Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	6.1 III UN 2902 6.1, EHSM PESTICIDE, LIQUID, TOXIC, N.O.S. (contains HETEROCYCLES)
Sea transport IMDG Hazard class: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	6.1 III UN 2902 6.1, EHSM YES PESTICIDE, LIQUID, TOXIC, N.O.S. (contains HETEROCYCLES)
Air transport IATA/ICAO Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	6.1 III UN 2902 6.1 PESTICIDE, LIQUID, TOXIC, N.O.S. (contains HETEROCYCLES)

#### Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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### **15. Regulatory Information**

#### Federal Regulations

#### **Registration status:**

Crop Protection DSL, CA released / exempt

#### Labeling requirements under Pest Control Products Act

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS- consistent safety data sheets. The following is the hazard information required on the pest control product label:



Danger: Poison

Skin Irritant WARNING: Contains the allergen soy. KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. HARMFUL IF INHALED. May be fatal if swallowed. Avoid inhalation of dusts/mists/vapours. Do not get in eyes. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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#### **16. Other Information**

#### SDS Prepared by:

BASF Agricultural Solutions Canada NA Product Regulations SDS Prepared on: 2024/03/26

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET