

# 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

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Contact address:  
BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1  
CANADA  
Telephone: +1 289 360-1300

#### 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

Synonyms: fluxapyroxad + pyraclostrobin

### 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                                   |
| Carc.      | 2                                    | Carcinogenicity                                  |
| STOT SE    | 3 (irritating to respiratory system) | Specific target organ toxicity — single exposure |

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|                 |   |  |
|-----------------|---|--|
| Aquatic Acute   | 1 | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic | 1 | Hazardous to the aquatic environment - chronic |

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

|      |   |
|------|---|
| H332 | Harmful if inhaled.                                   |
| H301 | Toxic if swallowed.                                   |
| H335 | May cause respiratory irritation.                     |
| H351 | Suspected of causing cancer.                          |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P280 | Wear protective gloves, protective clothing and eye protection or face protection. |
| P271 | Use only outdoors or in a well-ventilated area.                                    |
| P273 | Avoid release to the environment.  |
| P201 | Obtain special instructions before use.  |
| P260 | Do not breathe mist or vapour.   |
| P202 | Do not handle until all safety precautions have been read and understood.          |
| P264 | Wash contaminated body parts thoroughly after handling.                            |

Precautionary Statements (Response):

|             |  |
|-------------|--|
| P308 + P311 | IF exposed or concerned: Call a POISON CENTER or physician.                |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or physician.               |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P330        | Rinse mouth  |
| P391        | Collect spillage.  |

Precautionary Statements (Storage):

|             |  |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405        | Store locked up.   |

Precautionary Statements (Disposal):

|      |   |
|------|---|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |
|------|---|

### Hazards not otherwise classified

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one

## 3. Composition / Information on Ingredients

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

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pyraclostrobin

CAS Number: 175013-18-0

Content (W/W): 21.26 %

Synonym: Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester

Fluxapyroxad

CAS Number: 907204-31-3

Content (W/W): 21.26 %

Synonym: 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-1H-pyrazole-4-carboxamide

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## 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.

#### 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. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 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.

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### 5. Fire-Fighting Measures

#### Extinguishing media

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

Unsuitable extinguishing media for safety reasons:  
water jet

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

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxides, chlorides, organochloric compounds, halogenated hydrocarbons  
The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. 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.

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### 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.

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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.

Protect from temperatures below: 0 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## **8. Exposure Controls/Personal Protection**

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

No occupational exposure limits known.

### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### **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 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:**

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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### 9. Physical and Chemical Properties

|   |   |                             |
|---|---|-----------------------------|
| Form:   | suspension  |                             |
| Odour:  | faint odour, fruity   |                             |
| Odour threshold:                                    | Not determined since harmful by inhalation.   |                             |
| Colour:   | beige   |                             |
| pH value:   | approx. 6 - 8<br>( 1 %(m), 20 °C)   | (pH Meter)                  |
| crystallization temperature:                        | approx. -6.7 °C   |                             |
| Boiling point:                                      | approx. 100 °C  |                             |
| Flash point:  | No flash point - Measurement made up to the boiling point.  |                             |
| Flammability:                                       | not highly flammable  | (Directive 92/69/EEC, A.12) |
| Autoignition:                                       | 517 °C  | (Directive 92/69/EEC, A.15) |
| SADT:   | > 75 °C<br>Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)   |                             |
| Vapour pressure:                                    | approx. 23 hPa<br>( 20 °C)  |                             |
| Density:  | Information applies to the solvent.<br>approx. 1.18 g/cm3<br>( 20 °C)   | (OECD Guideline 109)        |
| Vapour density:                                     | not applicable  |                             |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable  |                             |
| Thermal decomposition:                              | 160 °C, 110 kJ/kg (DSC (OECD 113))<br>(onset temperature)<br>270 °C, 320 kJ/kg (DSC (OECD 113))<br>(onset temperature)<br>410 °C, > 80 kJ/kg (DSC (OECD 113))<br>(onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. |                             |
| Viscosity, dynamic:                                 | approx. 50 mPa.s<br>( 20 °C)  | (OECD 114)                  |
| Solubility in water:                                | dispersible   |                             |
| Evaporation rate:                                   | not applicable  |                             |

### 10. Stability and Reactivity

#### Reactivity

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

Oxidizing properties:

not fire-propagating (Directive 2004/73/EC, A.21)

#### 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

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Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

### Incompatible materials

strong oxidizing agents, strong bases, strong acids

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

160 °C, 2.5 K/min (DSC (OECD 113))

(onset temperature)

270 °C, 2.5 K/min (DSC (OECD 113))

(onset temperature)

410 °C, 2.5 K/min (DSC (OECD 113))

(onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

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## 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 high 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.

#### Oral

Type of value: LD50

Species: rat (female)

Value: > 50 - < 300 mg/kg (OECD Guideline 423)

#### Inhalation

Type of value: LC50

Species: rat (female)

Value: 2.81 mg/l (OECD Guideline 403)

Exposure time: 4 h

An aerosol was tested.

#### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (OECD Guideline 402)

No mortality was observed.

#### Assessment other acute effects

Assessment of STOT single:

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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: May cause slight but temporary irritation to the eyes. May cause moderate irritation to the skin.

### Skin

Species: rabbit

Result: Irritant.

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

### Sensitization

Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Method: OECD Guideline 406

### Aspiration Hazard

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

## 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.

*Information on: fluxapyroxad (ISO); 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluorobiphenyl-2-yl)pyrazole-4-carboxamide*

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

*Information on: Pyraclostrobin*

*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.*

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

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

*Information on: Pyraclostrobin*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

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*Information on: fluxapyroxad (ISO); 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluorobiphenyl-2-yl)pyrazole-4-carboxamide*

*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.*

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### Reproductive toxicity

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.

### 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.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to fish. Very toxic (acute effect) to aquatic invertebrates. Acutely toxic for aquatic plants.

#### Toxicity to fish

LC50 (96 h) 0.032 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

#### Aquatic invertebrates

EC50 (48 h) 0.068 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

#### Aquatic plants

EC50 (72 h) 3.56 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 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.

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### 14. Transport Information

#### Land transport

TDG

Hazard class: 6.1  
Packing group: III  
ID number: UN 2902  
Hazard label: 6.1, EHSM  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN)

#### Sea transport

IMDG

Hazard class: 6.1  
Packing group: III  
ID number: UN 2902  
Hazard label: 6.1, EHSM  
Marine pollutant: YES  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN)

#### Air transport

IATA/ICAO

Hazard class: 6.1  
Packing group: III  
ID number: UN 2902  
Hazard label: 6.1  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN)

#### Further information

This product may be classified as limited quantity in selected package sizes.

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical DSL, CA released; restriction on quantity / not listed

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 registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These

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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.

Skull and crossbones inside octagon

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.

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2021/01/19

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.

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