

# Safety Data Sheet

## Merge® Adjuvant

Revision date : 2025/11/04

Version: 8.0

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(30692819/SDS\_CPA\_CA/EN)

### 1. Identification

#### Product identifier used on the label

## Merge® Adjuvant

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

Recommended use\*: Chemical

\* 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 Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, 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**

Chemical family: No applicable information available.  
PCP # 24702

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2022-272)

#### Classification of the product

Flam. Liq.	4	Flammable liquids
Acute Tox.	3 (Inhalation - mist)	Acute toxicity
Asp. Tox.	1	Aspiration hazard
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Corr./Irrit.	2	Skin corrosion/irritation

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Carc.	2	Carcinogenicity
STOT SE	3 (May cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H227	Combustible liquid.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P261	Avoid breathing mist.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist or vapour or spray.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or physician.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308 + P313 IF exposed or concerned: Get medical attention.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P391 Collect spillage.  
P331 Do NOT induce vomiting.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

### 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/container in accordance with local regulations.

## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2022-272)

#### solvent naphtha

CAS Number: 64742-94-5  
Content (W/W):  $\geq 30.0$  -  $\leq 60.0\%$   
Synonym: Solvent naphtha, petroleum, heavy arom.

#### 1,2,4-trimethylbenzene

CAS Number: 95-63-6  
Content (W/W):  $\geq 1.0$  -  $\leq 5.0\%$   
Synonym: 1,2,4-Trimethylbenzene

#### | Oxirane, methyl-, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates

CAS Number: 68649-29-6  
Content (W/W):  $\geq 3.0$  -  $\leq 10.0\%$   
Synonym: No data available.

#### naphthalene

CAS Number: 91-20-3  
Content (W/W):  $\geq 1.0$  -  $\leq 7.0\%$   
Synonym: Naphthalin

#### phosphoric acid

CAS Number: 7664-38-2  
Content (W/W):  $\geq 0.5$  -  $\leq 5.0\%$   
Synonym: Orthophosphoric acid

#### | Neodecanoic acid, potassium salt

CAS Number: 26761-42-2  
Content (W/W):  $\geq 0.1$  -  $\leq 1.5\%$   
Synonym: No data available.

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The actual concentration is withheld as a trade secret.

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## 4. First-Aid Measures

### Description of 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. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### If on skin:

Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

#### 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:

Seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor. Do not give solids or liquids. 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  
Hazards: No applicable information available.

### 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

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

Unsuitable extinguishing media for safety reasons:  
water jet

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### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides

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:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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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

For small amounts: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

For large amounts: Dike spillage. Pump off product.

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## 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. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy.

Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear.

Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge.

Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage.

Protect against contamination.

Protect from temperatures below: 5 °C

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

Protect from temperatures above: 40 °C

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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.**

#### Components with occupational exposure limits

naphthalene	ACGIH, US:	TWA value 10 ppm ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	OSHA Z1:	PEL 10 ppm 50 mg/m3 ;
1,2,4-trimethylbenzene	ACGIH, US:	TWA value 10 ppm ;
phosphoric acid	ACGIH, US:	TWA value 1 mg/m3 ;
	ACGIH, US:	STEL value 3 mg/m3 ;
	OSHA Z1:	PEL 1 mg/m3 ;
solvent naphtha	ACGIH, US:	TWA value 200 mg/m3 Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures.
	ACGIH, US:	Skin Designation Non-aerosol (total hydrocarbon vapor); Danger of cutaneous absorption

#### **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) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. 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. Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

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### 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). Remove 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.

## 9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	faintly aromatic	
Odour threshold:	Not determined since toxic by inhalation.	
Colour:	product specific	
pH value:	not applicable, not soluble	
flow point:	approx. -20 °C	
	Information applies to the solvent.	
Boiling point:	approx. 178 - 209 °C	
	Information applies to the solvent.	
Sublimation point:	No applicable information available.	
Flash point:	65.5 °C	(closed cup)
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:	approx. 449 - 510 °C	
	Information applies to the solvent.	
Vapour pressure:	approx. 1 hPa ( 20 °C)	
	Information applies to the solvent.	
Density:	approx. 0.93 g/cm3 ( 20 °C)	
Relative density:	No data available.	
Relative vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	carbon monoxide, carbon dioxide	
	Stable at ambient temperature. If product is heated above decomposition temperature, toxic vapours will be released.	

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Viscosity, dynamic:	12 mPa.s ( 20 °C)
Viscosity, kinematic:	No data available.
Solubility in water:	dispersible
Solubility (quantitative):	No data available.
Solubility (qualitative):	No data available.
Molecular weight:	No data available.
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 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**

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

### **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:

Possible thermal decomposition products:  
carbon monoxide, carbon dioxide

Stable at ambient temperature. If product is heated above decomposition temperature, toxic vapours will be released.

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## 11. Toxicological information

### **Primary routes of exposure**



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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: Slightly toxic after single ingestion. Slightly toxic after short-term inhalation. Slightly toxic after short-term skin contact.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,200 mg/kg

No mortality was observed.

#### Inhalation

Type of value: LC50

Species: rat

Value: 0.86 mg/l

Exposure time: 4 h

An aerosol was tested.

#### Dermal

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

No mortality was observed.

#### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

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

#### Irritation / corrosion

Assessment of irritating effects: Irritating to eyes and skin.

#### Skin

Species: rabbit

Result: Irritant.

#### Eye

Species: rabbit

Result: irreversible damage

#### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

#### Skin sensitization test

Species: guinea pig

Result: Non-sensitizing.

#### Aspiration Hazard

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May also damage the lung at swallowing (aspiration hazard). 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: phosphoric acid*

*Assessment of repeated dose toxicity: The substance may lead to shifts in blood composition following repeated exposure in animal experiments.*

#### *Information on: naphthalene*

*Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. The substance may cause damage to the olfactory epithelium after repeated inhalation. Repeated dermal uptake of the substance did not cause substance-related effects.*

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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.

#### *Information on: solvent naphtha*

*Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in studies with mammals.*

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#### *Information on: naphthalene*

*Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals. Literature data.*

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#### Carcinogenicity

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

#### *Information on: solvent naphtha*

*Assessment of carcinogenicity: Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

#### *Information on: naphthalene*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

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Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Other Information

Misuse can be harmful to health.

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life. 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.

Toxicity to fish

*Information on: Alcohols, C16-18, ethoxylated propoxylated*

*LC50 0.1 - 1 mg/l, Oncorhynchus mykiss*

*Information on: solvent naphtha*

*LL50 (96 h) 2 - 5 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EWG, C.1, semistatic)*

*The product is highly volatile. Tested in a closed test system. Nominal values (confirmed by concentration control analytics) The product has low solubility in the test medium. An eluate has been tested.*

-----  
Aquatic invertebrates

*Information on: Alcohols, C16-18, ethoxylated propoxylated*

*EC50 (48 h) 0.1 - 1 mg/l*

*Information on: solvent naphtha*

*EL50 (48 h) 3 - 10 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*

*The details of the toxic effect relate to the nominal concentration. The product is highly volatile. Tested in a closed test system. The product has low solubility in the test medium. An eluate has been tested.*

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Aquatic plants

*Information on: Alcohols, C16-18, ethoxylated propoxylated*

*EC50 (72 h) 0.1 - 1 mg/l*

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*Information on: solvent naphtha*

*EL50 (72 h) 1 - 3 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)  
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An eluate has been tested.*

*No observed effect concentration (72 h) 1 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An eluate has been tested.*

### Chronic toxicity to fish

*Information on: solvent naphtha*

*No observed effect concentration (28 d) 0.098 mg/l, Oncorhynchus mykiss (other)*

### Chronic toxicity to aquatic invertebrates

*Information on: solvent naphtha*

*No observed effect concentration (21 d) 0.48 mg/l, Daphnia magna (OECD Guideline 211, semistatic)*

*Limit concentration test only (LIMIT test). The product has low solubility in the test medium. An eluate has been tested.*

*Analogous: Assessment derived from products with similar chemical character.*

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

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

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

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

### Assessment bioaccumulation potential

*Information on: solvent naphtha*

*The product contains components with potential for bioaccumulation*

## **Mobility in soil**

### Assessment transport between environmental compartments

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

*Information on: 1,2,4-trimethylbenzene*

*The substance will rapidly evaporate into the atmosphere from the water surface.*

*Adsorption to solid soil phase is 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:

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Consult the product label for additional details.

## 14. Transport Information

### Land transport

TDG

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, ALCOHOLS, ETHOXYLATED, PROPOXYLATED)

### Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, ALCOHOLS, ETHOXYLATED, PROPOXYLATED)

### Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of less than 450 L/450 Kg under the provisions of TDG: Special Provision 99(2). Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

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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:



Warning: Poison

Skin Irritant

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

Avoid inhalation of mists/vapours.

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: 2025/11/04

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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