

February 2009

# **MATERIAL SAFETY DATA SHEETS**

**FOR ODYSSEY DLX:**

**ODYSSEY WDG HERBICIDE**

**PLUS**

**EQUINOX EC HERBICIDE**

**PLUS**

**MERGE ADJUVANT**

# Safety data sheet

## ODYSSEY WDG HERBICIDE

Revision date : 2009/02/25  
Version: 1.0

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(30207368/MDS\_CPA\_CA/EN)

### 1. Substance/preparation and company identification

Company

BASF CANADA  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

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Substance number:	000000063481
Molecular formula:	C15 H19 N3 O3 ; C15 H19 N3 O4
Chemical family:	imidazole derivative
Synonyms:	imazethapyr ; imazamox
PCP# 25111	

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### 2. Hazardous ingredients

Not WHMIS controlled.

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### 3. Hazard identification

Potential health effects

**See Product Label for additional precautionary statements.**

**Acute toxicity:**

Harmful if swallowed.

**Irritation:**

May cause slight irritation to the eyes. May cause slight irritations to the respiratory tract. Prolonged contact with the product can result in skin irritation.

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### 4. First-aid measures

**If inhaled:**

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

**If on skin:**

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

**If in eyes:**

Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

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**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

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### 5. Fire-fighting measures

Flash point:	not applicable
Autoignition:	not applicable
Self-ignition temperature:	not self-igniting

**Suitable extinguishing media:**

foam, dry extinguishing media, carbon dioxide, water spray

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons,  
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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### 6. Accidental release measures

**Personal precautions:**

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

**Cleanup:**

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

**Handling**

**General advice:**

Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Avoid dust formation. Provide means for controlling leaks and spills. 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:**

Dust can form an explosive mixture with air.

**Storage**

**General advice:**

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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. The authority permits and storage regulations must be observed.

### 8. Exposure controls and personal protection

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

#### Advice on system design:

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

#### Personal protective equipment

#### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

##### 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

##### Eye protection:

Tightly fitting safety goggles (chemical goggles).

##### General safety and hygiene measures:

Wash soiled clothing immediately.

### 9. Physical and chemical properties

Form:	granules	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	off-white to tan	
pH value:	2.9	
Melting point:	164 - 165 °C	
Boiling point:		The product is a non-volatile solid., not applicable
Vapour pressure:		negligible
Bulk density:	529 - 609 kg/m <sup>3</sup>	
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		not applicable
Viscosity, kinematic:		not applicable
Solubility in water:		( 20 °C) dispersible

### 10. Stability and reactivity

#### Conditions to avoid:

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. This

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product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

### **Decomposition products:**

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

### **Corrosion to metals:**

Corrosive effects to metal are not anticipated.

### **Oxidizing properties:**

not fire-propagating

Not an oxidizer.

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## 11. Toxicological information

### **Acute toxicity**

#### **Oral:**

LD50/rat: > 5,000 mg/kg

#### **Inhalation:**

LC50/rat: > 27.2 mg/l / 1 h

#### **Dermal:**

LD50/rat: > 4,000 mg/kg

LD50/rat: > 2,000 mg/kg

#### **Skin irritation:**

rabbit: non-irritant (Primary skin irritation test)

#### **Eye irritation :**

rabbit: non-irritant

#### **Sensitization:**

Skin sensitization test/guinea pig:

Skin sensitizing effects were not observed in animal studies.

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## 12. Ecological information

### **Environmental fate and transport**

#### **Biodegradation:**

Evaluation: Not readily biodegradable (by OECD criteria).

*Information on: imazethapyr*

*Information on: imazamox*

Evaluation: *Not readily biodegradable (by OECD criteria).*

*Information on: imazethapyr*

*Information on: imazamox*

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*Information on: imazamox*  
*Acute toxicity to aquatic invertebrates:*  
*Daphnia magna/EC50: >122 ppm*

*Information on: imazethapyr*  
*Acute toxicity to aquatic invertebrates:*  
*Daphnia magna/LC50 (48 h): > 1,000 mg/l*  
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*Information on: imazamox*  
*Other terrestrial non-mammals:*  
*mallard duck/LC50: > 5,572 ppm*  
*Honey bee/LD50: > 100 ug/bee*

*Information on: imazethapyr*  
*Other terrestrial non-mammals:*  
*mallard duck/LC50: > 5,000 ppm*  
*With high probability not acutely harmful to terrestrial organisms.*  
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### 13. Disposal considerations

**Waste disposal of substance:**  
See product label for disposal and recycling instructions.

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### 14. Transport information

Reference Bill of Lading

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### 15. Regulatory information

#### Federal Regulations

**Registration status:**  
DSL, CA released / exempt

WHMIS does not apply to this product.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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### 16. Other information

**Refer to product label for EPA registration number.**

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**Local contact information**  
BASF Canada Product Safety  
prod\_reg@basf.com 289-360-1300

END OF DATA SHEET

# Safety data sheet

## EQUINOX® EC HERBICIDE

Revision date : 2009/05/29  
Version: 3.1

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(30326684/SDS\_GEN\_CA/EN)

### 1. Substance/preparation and company identification

Company  
BASF CANADA  
100 Milverton Drive  
Mississauga, ON L5R 4H1

24 Hour Emergency Response Information  
CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE (800) 454-COPE (2673)

Molecular formula: C17 H24 Cl N O4  
Chemical family: crop protection product, herbicide, emulsion concentrate (EC) crop protection product, herbicide, emulsion concentrate (EC)  
Synonyms: Tepraloxydim

PCP # 27603

### 2. Hazardous ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
91-20-3	5.0 - 10.0 %	naphthalene
64742-94-5	30.0 - 60.0 %	solvent naphtha
1330-20-7	1.0 - 5.0 %	Xylene
91-57-6	10.0 - 30.0 %	Naphthalene, 2-methyl-
90-12-0	5.0 - 10.0 %	Naphthalene, 1-methyl-

### 3. Hazard identification

#### Potential health effects

##### **Acute toxicity:**

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

##### **Irritation:**

Irritating to skin.

##### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

### 4. First-aid measures

#### **If inhaled:**

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

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## EQUINOX® EC HERBICIDE

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### **If on skin:**

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

### **If in eyes:**

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

### **If swallowed:**

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### **Note to physician**

Antidote:	No known specific antidote.
Treatment:	Treat symptomatically. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-fighting measures

Flash point:	93 °C	(DIN EN 22719; ISO 2719)
Autoignition:	approx. 491 °C	Information applies to the solvent.
Lower explosion limit:	approx. 0.7 %(V)	Information applies to the solvent.
Upper explosion limit:	approx. 5.6 %(V)	Information applies to the solvent.
Self-ignition temperature:		not self-igniting

### **Suitable extinguishing media:**

water spray, foam, dry extinguishing media, carbon dioxide

### **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. 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. In case of fire and/or explosion do not breathe fumes.

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## 6. Accidental release measures

### **Personal precautions:**

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

### **Environmental precautions:**

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

### **Cleanup:**

For large amounts: Dike spillage. Pump off product.

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

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## EQUINOX® EC HERBICIDE

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### 7. Handling and storage

#### Handling

**General advice:**

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

**Protection against fire and explosion:**

The product is combustible. 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

**General advice:**

Keep container in a well-ventilated place. Keep container dry. Keep away from heat. Protect against moisture. Protect from direct sunlight.

**Storage incompatibility:**

General: Segregate from foods and animal feeds.

**Storage stability:**

Storage duration: 36 Months

**Temperature tolerance**

Protect from temperatures below: -10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 30 °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 and personal protection

#### Components with workplace control parameters

Naphthalene, 2-methyl-

	ACGIH	TWA value 0.5 ppm ; Skin Designation ;
naphthalene	OSHA	PEL 10 ppm 50 mg/m <sup>3</sup> ;
	ACGIH	TWA value 10 ppm ; STEL value 15 ppm ; Skin Designation ;

Naphthalene, 1-methyl-

	ACGIH	TWA value 0.5 ppm ; Skin Designation ;
Xylene	OSHA	PEL 100 ppm 435 mg/m <sup>3</sup> ;
	ACGIH	TWA value 100 ppm ; STEL value 150 ppm ;

#### Personal protective equipment

**Respiratory protection:**

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

**Hand protection:**

Chemical resistant protective gloves

**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).

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### 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. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. 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. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

## 9. Physical and chemical properties

Form:	liquid	
Odour:	faintly aromatic	
Odour threshold:	No data available.	
Colour:	dark yellow	
pH value:	approx. 4	( 1 %(m), 20 °C) (as an emulsion)
crystallization temperature:	< -20 °C	
Boiling point:	approx. 250 °C	Information applies to the solvent.
Vapour pressure:	approx. 0.05 hPa	Information applies to the solvent.
Density:	1.035 g/cm <sup>3</sup>	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	approx. 9.6 mPa.s	( 20 °C)
Viscosity, kinematic:	4.8 mm <sup>2</sup> /s	( 40 °C)
Solubility in water:		emulsifiable

## 10. Stability and reactivity

### Substances to avoid:

No substances known that should be avoided.

### Hazardous reactions:

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

### Decomposition products:

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

### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

## 11. Toxicological information

### Acute toxicity

#### Oral:

LD50/rat: > 2,000 - < 3,000 mg/kg

#### Inhalation:

LC50/rat: > 5.4 mg/l / 4 h(OECD Guideline 403)

#### Dermal:

LD50/rat: > 4,000 mg/kg

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**Skin irritation:**  
rabbit: Irritant.

**Eye irritation :**  
rabbit: non-irritant

**Sensitization:**  
modified Buehler test/guinea pig: Skin sensitizing effects were not observed in animal studies.

### **Chronic toxicity**

**Carcinogenicity:**  
Limited evidence of a carcinogenic effect.

**Reproductive toxicity:**  
Possible risk of impaired fertility.

**Developmental toxicity/teratogenicity:**  
Possible risk of harm to the unborn child.

**Other information:**  
Misuse can be harmful to health.

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## 12. Ecological information

### **Environmental fate and transport**

**Biodegradation:**  
Evaluation: Not readily biodegradable (by OECD criteria).

### **Environmental toxicity**

**Acute and prolonged toxicity to fish:**  
Rainbow trout/LC50 (96 h): 4.6 mg/l

**Acute toxicity to aquatic invertebrates:**  
Daphnia magna/EC50 (48 h): 8.1 mg/l

**Toxicity to aquatic plants:**  
green algae/EC50 (72 h): 7.1 mg/l

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## 13. Disposal considerations

**Waste disposal of substance:**  
Must be dumped or incinerated in accordance with local regulations.  
See product label for disposal and recycling instructions.

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## 14. Transport information

**Land transport**  
TDG

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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)

### 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)

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## 15. Regulatory information

### Federal Regulations

#### Registration status:

DSL, CA released / exempt

WHMIS does not apply to this product.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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## 16. Other information

Recommended use: herbicide

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### Local contact information

BASF Canada Product Safety  
289-360-1300

EQUINOX® EC HERBICIDE (MCS) 1,62 L PE-Bottle is a registered trademark of BASF Canada or BASF SE  
END OF DATA SHEET

# Safety data sheet

## MERGE®

Revision date : 2009/03/18  
Version: 1.0

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(30059253/SDS\_CPA\_CA/EN)

### 1. Substance/preparation and company identification

Company

BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

Substance number: 000000139697  
PCP# 21058, 24702, 25818

### 2. Hazardous ingredients

Not WHMIS controlled.

### 3. Hazard identification

Emergency overview

COMBUSTIBLE LIQUID.  
CAUSES SKIN IRRITATION.

Potential health effects

See Product Label for additional precautionary statements.

**Irritation:**

Irritating to eyes and skin.

### 4. First-aid measures

**If inhaled:**

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

# Safety data sheet

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## 5. Fire-fighting measures

Flash point: 65.5 °C (closed cup)

**Suitable extinguishing media:**

water spray, dry extinguishing media, foam, carbon dioxide

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

**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:**

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

**Cleanup:**

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

**Handling**

**General advice:**

Provide good ventilation of working area (local exhaust ventilation if necessary).

**Storage**

**General advice:**

Protect against moisture. Avoid all sources of ignition: heat, sparks, open flame. Protect from direct sunlight. Store protected against freezing.

**Storage incompatibility:**

General: Segregate from foods and animal feeds.

**Storage stability:**

Storage duration: 24 Months

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## 8. Exposure controls and personal protection

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

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## Personal protective equipment

### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

Breathing protection if gases/vapours are formed. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

#### **Hand protection:**

Chemical resistant protective gloves, Suitable materials, rubber, plastic

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **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:**

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Keep separated from food stuffs and feed stocks. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and chemical properties

Form:	liquid	
Odour:	faintly aromatic	
Odour threshold:	No data available.	
Colour:	pale straw yellow	
pH value:		not applicable, not soluble
Freezing point:		Unspecified
Boiling range:		Information applies to the solvent.
<i>Information on: Solvent naphtha</i>		
Boiling point:	183.89 °C	
-----		
Vapour pressure:		No data available.
<i>Information on: Solvent naphtha</i>		
Vapour pressure:	< 5 hPa	
-----		
Density:	0.934 g/cm <sup>3</sup>	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		emulsifiable

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## 10. Stability and reactivity

#### **Conditions to avoid:**

Avoid extreme heat.

#### **Substances to avoid:**

strong oxidizing agents

#### **Hazardous reactions:**

The product is chemically stable.

No hazardous reactions when stored and handled according to instructions.

#### **Oxidizing properties:**

No data available.

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## 11. Toxicological information

### Oral:

*Information on: Alcohols, C16-18, ethoxylated propoxylated*  
*LD50/rat: > 2,000 mg/kg*

*Information on: solvent naphtha*  
*LD50/rat: > 7,000 mg/kg*

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### Inhalation:

*Information on: Alcohols, C16-18, ethoxylated propoxylated*  
*LC50/rat: > 0.25 - < 1 mg/l / 4 h*  
*An aerosol was tested.*

*Information on: solvent naphtha*  
*LC50/rat: > 4 mg/l / 4 h*

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### Dermal:

*Information on: Alcohols, C16-18, ethoxylated propoxylated*  
*> 4,000 mg/kg*

*Information on: solvent naphtha*  
*LD50/rat: > 3,160 mg/kg*

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### Skin irritation:

*Information on: Alcohols, C16-18, ethoxylated propoxylated*  
*rabbit: non-irritant (BASF-Test)*

*Information on: solvent naphtha*  
*rabbit: moderately irritating*

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### Eye irritation :

*Information on: Alcohols, C16-18, ethoxylated propoxylated*  
*rabbit: non-irritant (BASF-Test)*

*Information on: solvent naphtha*  
*rabbit: Slightly irritating.*

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### Sensitization:

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

*Information on: solvent naphtha  
Buehler test/guinea pig: Non-sensitizing.*

-----  
**Genetic toxicity:**

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

*Information on: solvent naphtha*

*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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## 12. Ecological information

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

*Test method: mod. OECD 303A*

*Method of analysis: Bismuth-active substance*

*Degree of elimination: >= 90 %*

*Test method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C*

*Method of analysis: CO2 formation relative to the theoretical value*

*Degree of elimination: 70 - 80 %*

*Information on: solvent naphtha*

*Test method: OECD 301F; ISO 9408; 92/69/EEC, C.4-D (aerobic), activated sludge, domestic*

*Method of analysis: BOD of COD*

*Degree of elimination: 50 - 60 % (28 d)*

*Evaluation: Easily eliminated from water.*

*Readily biodegradable.*

*Evaluation:*

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

*Acute and prolonged toxicity to fish:*

*Rainbow trout/LC50: 0.1 - 1 mg/l*

*Information on: solvent naphtha*

*Acute and prolonged toxicity to fish:*

*OECD 203; ISO 7346; 84/449/EEC, C.1 semistatic*

*Rainbow trout/LC50 (96 h): 18 mg/l*

*The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous dispersion has been tested.*  
-----

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

*Acute toxicity to aquatic invertebrates:*

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

*Information on: solvent naphtha*

*Acute toxicity to aquatic invertebrates:*

*OECD Guideline 202, part 1 static*

*Daphnia magna/EC50 (48 h): 1.4 - 21 mg/l*

*The product has low solubility in the test medium. An aqueous dispersion has been tested.*  
-----

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

*Toxicity to aquatic plants:*

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

*Information on: solvent naphtha*

*Toxicity to aquatic plants:*

# Safety data sheet

## MERGE®

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(30059253/SDS\_CPA\_CA/EN)

*OECD Guideline 201 green algae/EC50 (72 h): 3.7 - 8.3 mg/l*

*The product has low solubility in the test medium. An aqueous dispersion has been tested.*

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

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### 13. Disposal considerations

**Waste disposal of substance:**

See product label for disposal and recycling instructions.

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### 14. Transport information

Reference Bill of Lading

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### 15. Regulatory information

**Federal Regulations**

**Registration status:**

DSL, CA

released / exempt

WHMIS does not apply to this product.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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### 16. Other information

**Refer to product label for EPA registration number.**

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**Local contact information**

BASF Canada Product Safety

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END OF DATA SHEET