

# 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.

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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	
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Vapour pressure:		No data available.
<i>Information on: Solvent naphtha</i>		
Vapour pressure:	< 5 hPa	
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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.*

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**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.*

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*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.*

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*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:*

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*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

prod\_reg@basf.com

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