

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 1/7
(30605524/SDS_GEN_CA/EN)

1. Product 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)

2. Hazards Identification

Emergency overview

CORROSIVE.
SENSITIZER.
Causes burns.
Corrosive to eyes.
May be harmful if absorbed through skin.
May be harmful if swallowed.
May cause sensitization by skin contact.

State of matter: liquid
Colour: amber
Odour: ammonia-like

Potential health effects

Acute toxicity:
Harmful in contact with skin and if swallowed.

Irritation / corrosion:
Causes burns.

Sensitization:
May produce an allergic reaction. Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 2/7
(30605524/SDS_GEN_CA/EN)

Signs and symptoms of overexposure:
Eye irritation, skin irritation, allergic symptoms

Potential environmental effects

Aquatic toxicity:
Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Degradation / environmental fate:
Poorly biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
112-24-3	>= 10.0 - <= 30.0 %	triethylenetetramine
112-57-2	>= 7.0 - <= 13.0 %	3,6,9-triazaundecamethylene-1,11-diamine
90-72-2	>= 5.0 - <= 10.0 %	2,4,6-tris(dimethylaminomethyl)phenol

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point: approx. 148.89 °C (ASTM D3278)
Autoignition: approx. 294 °C
Flammability: not highly flammable

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

Unsuitable extinguishing media for safety reasons:
water jet

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 3/7
(30605524/SDS_GEN_CA/EN)

Protective equipment for fire-fighting:

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

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

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

Cleanup:

For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling**Protection against fire and explosion:**

The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage**General advice:**

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

Temperature tolerance

Protect from temperatures below: 0 °C

The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls and Personal Protection

Personal protective equipment**Respiratory protection:**

Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:

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

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

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

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 4/7
(30605524/SDS_GEN_CA/EN)

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	paste		
Odour:	ammonia-like		
Odour threshold:	No data available.		
Colour:	amber		
Vapour pressure:	< 1 hPa	(20 °C)	
Density:	approx. 0.96 g/cm3	(approx. 20 °C)	
Solubility in water:		(20 °C)	insoluble
Miscibility with water:		(20 °C)	not soluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.		

10. Stability and Reactivity

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Decomposition products:

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

11. Toxicological information

Acute toxicity

Information on: 2,4,6-tris(dimethylaminomethyl)phenol

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. EU-classification

Information on: triethylenetetramine

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact.

Oral:

Information on: triethylenetetramine

Type of value: LD50

Species: rat

Value: 1,716 mg/kg

Dermal:

Information on: triethylenetetramine

Type of value: LD50

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 5/7
(30605524/SDS_GEN_CA/EN)

Species: rabbit
Value: 1,465 mg/kg

Irritation / corrosion

Information on: triethylenetetramine
Assessment of irritating effects:
Corrosive! Damages skin and eyes.

Information on: 2,4,6-tris(dimethylaminomethyl)phenol
Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Information on: 3,6,9-triazaundecamethylene-1,11-diamine
Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Information on: triethylenetetramine
Assessment of sensitization:
Sensitization after skin contact possible.

Can sensitize the skin and/or respiratory tract of allergic persons. May produce an allergic reaction.

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Fish

Information on: triethylenetetramine
Acute:
static
Pimephales promelas/LC50 (96 h): 330 mg/l

Aquatic invertebrates

Information on: triethylenetetramine
Acute:
Directive 84/449/EEC, C.2 static
Daphnia magna/EC50 (48 h): 31.1 mg/l
The details of the toxic effect relate to the nominal concentration.

Aquatic plants

Information on: triethylenetetramine
Toxicity to aquatic plants:
OECD Guideline 201 semistatic
green algae/EC50 (72 h): 20 mg/l

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 6/7
(30605524/SDS_GEN_CA/EN)

Other adverse effects:

Ecological data are not available.
Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not allow to enter drains or waterways. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

14. Transport Information

Land transport

TDG

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE, TRIENTINE)

Sea transport

IMDG

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Marine pollutant: NO
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE, TRIENTINE)

Air transport

IATA/ICAO

Hazard class: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE, TRIENTINE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

Safety Data Sheet

MasterFlow 648 PART B also MASTERFLOW 648CP PLUS GRT PTB

Revision date : 2012/02/23
Version: 1.1

Page: 7/7
(30605524/SDS_GEN_CA/EN)

WHMIS classification: E: Corrosive material



**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.**

16. Other Information

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.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com
BASF HOTLINE (800) 454 – COPE (2673)
MSDS Prepared on: 2012/02/23

END OF DATA SHEET