

Safety Data Sheet

MasterPolyheed 997 also POLYHEED® 997

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Version: 1.2

(30605438/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

IRRITANT.
Irritating to eyes.
May be harmful if absorbed through skin.
May be harmful if inhaled.
May be harmful if swallowed in large quantities.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

State of matter: liquid
Colour: dark brown
Odour: musty

Potential health effects**Acute toxicity:**

Virtually nontoxic after a single ingestion.

Irritation / corrosion:

May cause severe damage to the eyes. Not irritating to the skin.

Chronic toxicity:

Repeated dose toxicity: No reliable data was available concerning repeated dose toxicity.

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

Teratogenicity: 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.

Signs and symptoms of overexposure:

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The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. At the present state of knowledge, no negative ecological effects are expected.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
7631-99-4	>= 10.0 - <= 30.0 %	sodium nitrate
540-72-7	>= 3.0 - <= 7.0 %	sodium thiocyanate
102-71-6	>= 0.5 - <= 1.5 %	2,2',2"-nitrilotriethanol
111-42-2	>= 0.1 - <= 1.0 %	2,2'-iminodiethanol

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. 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 with water. Seek medical attention if necessary. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point:

A flash point determination is unnecessary
due to the high water content.
not applicable

Autoignition:

Flammability:

not flammable

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

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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: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

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

Components with occupational exposure limits

2,2'-iminodiethanol

ACGIH TLV TWA value 1 mg/m3 Inhalable fraction and vapor ; Skin
Designation Inhalable fraction and vapor ;
The substance can be absorbed through the skin.

Personal protective equipment

Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

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Body protection:

depending upon conditions of use., Cover as much of the exposed skin as possible to prevent all skin contact., light protective clothing

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:	liquid	
Odour:	musty	
Odour threshold:	No data available.	
Colour:	dark brown	
pH value:	approx. 8	
Melting point:	0 °C	
<i>Information on: Water</i>		
Melting point:	0 °C	

Boiling point:	100 °C	
<i>Information on: Water</i>		
Boiling point:	100 °C	

<i>Information on: Water</i>		
Vapour pressure:	23.4 hPa	(20 °C) Literature data.

Density:	approx. 1.27 g/cm3	(20 °C)
Relative density:	approx. 1.27	
Vapour density:		Heavier than air.
Solubility in water:		(20 °C) soluble
Miscibility with water:		(20 °C) miscible in all proportions
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme temperatures.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

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Acute toxicity

Information on: sodium nitrate

Assessment of acute toxicity:

There is a risk of damage to the blood (methemoglobinemia) after a single uptake of large quantities.

Information on: 2,2'-iminodiethanol

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. The substance can be absorbed through the skin. Inhalation-risk test (IRT): The inhalation of a highly saturated vapor-air-mixture represents no acute hazard (mortality after an hour or later).

Oral:

Information on: sodium nitrate

Type of value: LD50

Species: rat

Value: 3,430 mg/kg (OECD Guideline 401)

Information on: 2,2'-iminodiethanol

Type of value: LD50

Species: rat

Value: approx. 1,600 mg/kg (BASF-Test)

Irritation / corrosion

Information on: 2,2'-iminodiethanol

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Eye:

Information on: 2,2'-iminodiethanol

Species: rabbit

Result: Irritant.

Method: BASF-Test

The European Union (EU) has classified this substance with 'Risk of serious damage to eyes' (R41)

Repeated dose toxicity

Information on: 2,2',2"-nitrilotriethanol

Assessment of repeated dose toxicity:

May affect the liver and kidneys as indicated in animal studies.

Information on: 2,2'-iminodiethanol

Assessment of repeated dose toxicity:

Repeated oral exposure may affect certain organs.

The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies.

Carcinogenicity

Information on: 2,2'-iminodiethanol

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Other Information:

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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

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

Bioaccumulation

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Other adverse effects:

According to experience, the material has no harmful effect on the environment. Do not discharge product into the environment without control. 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:

Recommendations: Use excess product in an alternate beneficial application. Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport TDG

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

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Federal Regulations

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects - Very toxic material



D2B: Materials Causing Other Toxic Effects - Toxic 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.

SDS Prepared by:

BASF NA Product Regulations

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BASF HOTLINE (800) 454 – COPE (2673)

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