

Revision date : 2012/06/01 Version: 2.0

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1. Product and Company Identification

<u>Company</u> 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)

Molecular formula: PCP # 27603 Synonyms: C17 H24 CI N O4

Tepraloxydim

2. Hazards Identification

Emergency overview

CAUTION: POISON. WARNING: Eye irritant. Skin Irritant HARMFUL IF SWALLOWED. Irritating to eyes and skin. Avoid inhalation of mists/vapours. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

State of matter: liquid Colour: dark yellow Odour: faintly aromatic

Potential health effects

Acute toxicity:

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

Irritation / corrosion:

May cause slight to moderate irritation after single short term exposure.

Sensitization:

Skin sensitizing effects were not observed in animal studies.

Signs and symptoms of overexposure:

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Vomiting may cause aspiration pneumonia due to the ingredients. Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

Potential environmental effects

Aquatic toxicity:

Acutely toxic for aquatic invertebrates. Acutely toxic for aquatic plants. Acutely toxic for fish.

Terrestrial toxicity:

Acutely harmful to terrestrial organisms.

3. Composition / Information on Ingredients

Not WHMIS controlled.

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

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 swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point: Autoignition: Lower explosion limit: Upper explosion limit: Flammability:

93 °C 440 °C approx. 0.7 %(V) approx. 5.6 %(V) not determined (DIN EN 22719; ISO 2719) (Directive 84/449/EEC, A.15) Information applies to the solvent. Information applies to the solvent.

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Hazards during fire-fighting:

carbon monoxide, Hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds The substances/groups of substances mentioned can be released in case of fire.

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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.

6. Accidental release measures

Personal precautions:

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.

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.

7. Handling and Storage

Handling

General advice:

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.

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.

Storage

General advice:

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.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

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

Personal protective equipment

Respiratory protection:

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

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Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

light protective clothing, thick material

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling cropprotection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form: Odour:	liquid faintly aromatic	
Odour threshold:	No data available.	
Colour:	dark yellow	
pH value:	approx. 3 - 5	(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	(20 °C) Information applies to the solvent.
Density:	approx. 1.04 g/cm3	(20 °C)
Vapour density:		not determined
Partitioning coefficient n-		not applicable
octanol/water (log Pow):		
Viscosity, dynamic:	approx. 9.4 mPa.s	(20 °C)
Viscosity, kinematic:	4.8 mm2/s	(40 °C)
Solubility in water:		emulsifiable

10. Stability and Reactivity

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.

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

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.

Thermal decomposition:

not determined

Oxidizing properties:

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

11. Toxicological information

Acute toxicity

Oral:

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Type of value: LD50 Species: rat Value: > 2,000 - < 3,000 mg/kg (Guideline 92/69/EEC, B.1)

Inhalation:

Type of value: LC50 Species: rat Value: > 5.4 mg/l (OECD Guideline 403) Exposure time: 4 h An aerosol was tested.

Dermal:

Type of value: LD50 Species: rat Value: > 4,000 mg/kg (Directive 92/69/EEC, B.3)

Irritation / corrosion

Skin:

Species: rabbit Result: Irritant. Method: OECD Guideline 404

Eye:

Species: rabbit Result: non-irritant Method: OECD Guideline 405

Sensitization:

modified Buehler test Species: guinea pig Result: Skin sensitizing effects were not observed in animal studies. Method: OECD Guideline 406

Carcinogenicity

Information on: Tepraloxydim Indication of possible carcinogenic effect in animal tests. Information on: solvent naphtha 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.

Reproductive toxicity

Information on: Tepraloxydim The results of animal studies suggest a fertility impairing effect.

Development:

Information on: Tepraloxydim Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Other Information:

Misuse can be harmful to health.

12. Ecological Information

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Acute:

Oncorhynchus mykiss/LC50 (96 h): 4.6 mg/l Lepomis macrochirus/LC50 (96 h): 2.29 mg/l

Aquatic invertebrates

Acute: Daphnia magna/EC50 (48 h): 8.1 mg/l

Mysid shrimp/EC50 (96 h): 0.26 mg/l

Aquatic plants

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

Bioaccumulation

Information on: Tepraloxydim

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: solvent naphtha flagfish (128 d) Bioconcentration factor 130 - 159 Accumulation in organisms is expected. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Environmental mobility:

Information on: Tepraloxydim Assessment transport between environmental compartments: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Must be sent to a suitable incineration plant, observing local regulations. See product label for disposal and recycling instructions.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport TDG

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Not classified as a dangerous good under transport regulations

Sea transport IMDG	
Hazard class: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	9 III UN 3082 9, EHSM YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA)
Air transport IATA/ICAO	
Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	9 III UN 3082 9, EHSM ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

15. Regulatory Information

Federal Regulations

Registration status: Chemical	DSL, CA	blocked / not listed
Crop Protection	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.

16. Other Information

Recommended use: herbicide

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: 2012/06/01

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1. Product and Company Identification

<u>Company</u> 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)

PCP # 21058/24702

2. Hazards Identification

Emergency overview

WARNING: POISON. Skin Irritant KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. HARMFUL IN CONTACT WITH SKIN. This product is a skin irritant. COMBUSTIBLE LIQUID. Avoid inhalation of mists/vapours. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling.

State of matter: liquid Colour: pale straw yellow Odour: faintly aromatic

Potential health effects

Acute toxicity:

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

Irritation / corrosion:

Irritating to eyes and skin.

Sensitization:

There is no evidence of a skin-sensitizing potential.

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3. Composition / Information on Ingredients

CAS Number 91-20-3

<u>Content (W/W)</u> >= 3.0 - <= 7.0 %

Hazardous ingredients naphthalene

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

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 swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Do not induce vomiting due to aspiration hazard.

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Note to physician

Antidote: No known specific antidote. Treatment: Treat symptomatically.

5. Fire-Fighting Measures

Flash point:	65.5 °C	(closed cup)
Lower explosion limit:		not determined
Upper explosion limit:		not determined

Suitable extinguishing media:

water spray, dry powder, 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:

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:

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.

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.

7. Handling and Storage

Handling

General advice:

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

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.

Storage

General advice:

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.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

Temperature tolerance

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

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

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

Components with workplace control parameters

OSHA PEL 10 ppm 50 mg/m3 ; ACGIH TWA value 10 ppm ; STEL value 15 ppm ; Skin Designation ; The substance can be absorbed through the skin.

Advice on system design:

naphthalene

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

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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. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

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

liquid	
faintly aromatic	
No data available.	
pale straw yellow	
	not applicable, not soluble
	Unspecified
> 100 °C	The statements are based on the properties of the individual components.
0.934 g/cm3	(20 °C)
5	not determined
	emulsifiable
	faintly aromatic No data available. pale straw yellow > 100 °C

10. Stability and Reactivity

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.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

The product is chemically stable.

No hazardous reactions when stored and handled according to instructions.

Decomposition products:

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

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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.

11. Toxicological information

Acute toxicity

Oral:

Information on: Alcohols, C16-18, ethoxylated propoxylated Type of value: LD50 Species: rat Value: > 2,000 mg/kg

Information on: solvent naphtha Type of value: LD50 Species: rat Value: > 7,000 mg/kg

Inhalation:

Information on: Alcohols, C16-18, ethoxylated propoxylated Type of value: LC50 Species: rat Value: > 0.25 - < 1 mg/l Exposure time: 4 h An aerosol was tested.

Information on: solvent naphtha Type of value: LC50 Species: rat Value: > 4 mg/l Exposure time: 4 h

Dermal:

Information on: Alcohols, C16-18, ethoxylated propoxylated

Value: > 4,000 mg/kg

Information on: solvent naphtha Type of value: LD50 Species: rat Value: > 3,160 mg/kg

Irritation / corrosion:

Skin:

Information on: Alcohols, C16-18, ethoxylated propoxylated Species: rabbit Result: non-irritant Method: BASF-Test

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Information on: solvent naphtha Species: rabbit Result: moderately irritating

Eye:

Information on: Alcohols, C16-18, ethoxylated propoxylated Species: rabbit Result: non-irritant Method: BASF-Test

Information on: solvent naphtha Species: rabbit Result: Slightly irritating.

Sensitization:

Information on: solvent naphtha Buehler test Species: guinea pig Result: Non-sensitizing.

Genetic toxicity

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.

12. Ecological Information

Fish

Information on: Alcohols, C16-18, ethoxylated propoxylated Acute: Oncorhynchus mykiss/LC50: 0.1 - 1 mg/l Information on: solvent naphtha Acute:

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

Aquatic invertebrates

Information on: Alcohols, C16-18, ethoxylated propoxylated Acute: EC50 (48 h): 0.1 - 1 mg/l

Information on: solvent naphtha Acute: 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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Aquatic plants

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: OECD Guideline 201 green algae/EC50 (72 h): 3.7 - 8.3 mg/l Analogous: Assessment derived from products with similar chemical character. The product has low solubility in the test medium. An aqueous dispersion has been tested.

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: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	9 III UN 3082 9, EHSM YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, FATTY ALCOHOL ETHOXYLATE 39%)
Air transport IATA/ICAO	
Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	9 III UN 3082 9, EHSM ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains SOLVENT NAPHTHA, FATTY ALCOHOL ETHOXYLATE 39%)

15. Regulatory Information

Federal Regulations

Registration status:

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Chemical

DSL, CA blocked / not listed

Crop Protection DSL, CA released / listed

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: adjuvant

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: 2012/04/26

END OF DATA SHEET