

**Safety Data Sheet**

according to WHMIS

PURE 50+, Comp. A

Revision date: 20.03.2020

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3. Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
9003-36-5	Bisphenol-F-epichlorohydrin resin MW <= 700	25 - 50 %
1675-54-3	2,2-Bis(4-glycidyoxyphenyl)propane	10 - 30 %
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	< 20 %
30499-70-8	1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane	1 - 20 %

Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures**Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Change contaminated, saturated clothing.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, whether acute or delayed

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Foam
Extinguishing powder
Water spray jet
Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous product

Pyrolysis products, toxic
Carbon monoxide



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Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand.

Treat the recovered material as prescribed in the section on waste disposal.
Retain contaminated washing water and dispose it.

Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Store in a place accessible by authorized persons only.
Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not use for products which come into contact with the food stuffs.
Store in a well-ventilated place. Keep cool.

Further information on storage conditions

Keep container tightly closed in a cool place. Protect from sunlight.
storage temperature: 5 - 30 °C

8. Exposure controls/Personal protection

Control parameters

Additional advice on limit values

This mixture includes quartz (silica) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded.

Exposure controls

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Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.
Wear safety glasses.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	light beige	
pH-Value:		not determined

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable
Lower explosive limits:	not determined
Upper explosive limits:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

Not oxidising.	
Vapour pressure:	not determined
Density:	not determined
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

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Solubility in other solvents

not determined

Partition coefficient:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Other information

Solid content:

not determined

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

none

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
9003-36-5	Bisphenol-F-epichlorohydrin resin MW <= 700				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
1675-54-3	2,2-Bis(4-glycidyloxyphenyl)propane				
	oral	LD50 11400 mg/kg	Rat		
30499-70-8	1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitizing effects



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May cause an allergic skin reaction. (Bisphenol-F-epichlorohydrin resin MW \leq 700; 2,2-Bis(4-glycidioxyphenyl)propane; 1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child. (1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods**Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Canadian TDG**UN/ID number:**

UN 3077

Proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Trimethylolpropane triglycidyl ether, Bisphenol-A/F-Epoxy resin)**Hazard classes:**

9

Packing group:

III

Hazard label:

9

Limited quantity:

5

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**Marine transport (IMDG)****UN number:**

UN 1759

United Nations proper shipping name:

CORROSIVE SOLID, N.O.S. (Trimethylolpropane triglycidyl ether, Bisphenol-A/F-Epoxy resin)

Transport hazard class(es):

8

Packing group:

III

Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 kg

Excepted quantity:

E1

EmS:

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)**UN number:**

UN 1759

United Nations proper shipping name:

CORROSIVE SOLID, N.O.S. (Trimethylolpropane triglycidyl ether, Bisphenol-A/F-Epoxy resin)

Transport hazard class(es):

8

Packing group:

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y845

Excepted quantity:

E1

IATA-packing instructions - Passenger:

860

IATA-max. quantity - Passenger:

25 kg

IATA-packing instructions - Cargo:

864

IATA-max. quantity - Cargo:

100 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

**15. Regulatory information****Canadian regulations****DSL/NDSL inventory status**

All ingredients of this mixture are included on the DSL Inventory.

16. Other information

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Changes

This data sheet contains changes from the previous version in section(s): 7,14,15.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Estimated average treatment effect

CAS: Chemical Abstracts Service

DSL: Domestic substances list

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

SIMDUT: Système d'information sur les matières dangereuses utilisées au travail

TDG: Transport of Dangerous Goods

TMD: Transport des marchandises dangereuses

TWA: Time-weighted average

UN number: United Nations number

WHMIS: Workplace Hazardous Materials Information System

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



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Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Chemical name	Quantity
1950616-36-0	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	20 - 30 %
108-95-2	Phenol	3 - 10 %
1477-55-0	m-Phenylenebis(methylamine)	5 - 15 %
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	1 - 5 %
100-51-6	Benzyl alcohol	1 - 5 %

Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Change contaminated, saturated clothing.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, whether acute or delayed

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause damage to organs through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Water spray jet
Carbon dioxide (CO₂)



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Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous productPyrolysis products, toxic
Carbon monoxide**Special protective equipment and precautions for fire-fighters**In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.**Additional information**Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning upCollect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand.
Treat the recovered material as prescribed in the section on waste disposal.
Retain contaminated washing water and dispose it.**Reference to other sections**Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling**Advice on safe handling**Use only outdoors or in a well-ventilated area.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.
Keep/Store only in original container.**Hints on joint storage**Do not use for products which come into contact with the food stuffs.
Store in a well-ventilated place. Keep cool.**Further information on storage conditions**Keep container tightly closed in a cool place. Protect from sunlight.
storage temperature: 5 - 30 °C

8. Exposure controls/Personal protection

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Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.
Wear safety glasses.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	black	
Odour:	characteristic	
pH-Value:		not applicable

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable
Lower explosive limits:	not determined
Upper explosive limits:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

Not oxidising.

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Vapour pressure: not determined
Density: not determined
Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents
not determined

Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

Other information

Solid content: not determined

10. Stability and reactivity**Reactivity**

see section 10.3

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Violent reaction with: Oxidising agent

Conditions to avoid

see section 7.2

Incompatible materials

Oxidising agent, strong

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1142,0 mg/kg

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CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
108-95-2	Phenol				
	oral	LD50 mg/kg 317	Rat		
	dermal	LD50 mg/kg 630	Rabbit		
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0,5 mg/l			
1477-55-0	m-Phenylenebis(methylamine)				
	oral	LD50 mg/kg 930	Rat		
	dermal	LD50 mg/kg 2000	Rabbit		
	inhalation (1 h) vapour	LC50 3,89 mg/l	Rat		
	inhalation aerosol	ATE 1,5 mg/l			
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol				
	oral	ATE mg/kg 500			
100-51-6	Benzyl alcohol				
	oral	LD50 mg/kg 1230	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

Irritation and corrosivity

Causes severe skin burns and eye damage.
Causes serious eye damage.

Sensitizing effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine); m-Phenylenebis(methylamine); 2,4,6-Tris(dimethylaminomethyl)phenol)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Phenol)
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Quartz (< 10µm) *)
May cause damage to organs through prolonged or repeated exposure. (Phenol)

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information**Ecotoxicity**

The product is not: Ecotoxic.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

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Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations**Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information**Canadian TDG**

<u>UN/ID number:</u>	UN 3259
<u>Proper shipping name:</u>	AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
<u>Hazard classes:</u>	8
<u>Packing group:</u>	II
Hazard label:	8
Limited quantity:	1 kg

**Marine transport (IMDG)**

<u>UN number:</u>	UN 3259
<u>United Nations proper shipping name:</u>	AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
<u>Transport hazard class(es):</u>	8
<u>Packing group:</u>	II
Hazard label:	8



Special Provisions:	274
Limited quantity:	1 kg
Excepted quantity:	E2
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

<u>UN number:</u>	UN 3259
<u>United Nations proper shipping name:</u>	AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
<u>Transport hazard class(es):</u>	8

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Packing group:

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y844

Excepted quantity:

E2

IATA-packing instructions - Passenger:

859

IATA-max. quantity - Passenger:

15 kg

IATA-packing instructions - Cargo:

863

IATA-max. quantity - Cargo:

50 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

15. Regulatory information**Canadian regulations****DSL/NDSL inventory status**

All ingredients of this mixture are included on the DSL Inventory.

16. Other information**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Estimated average treatment effect

CAS: Chemical Abstracts Service

DSL: Domestic substances list

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

SIMDUT: Système d'information sur les matières dangereuses utilisées au travail

TDG: Transport of Dangerous Goods

TMD: Transport des marchandises dangereuses

TWA: Time-weighted average

UN number: United Nations number

WHMIS: Workplace Hazardous Materials Information System

Further Information

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)