

1. Product and company identification

Product identifier

Trade name: TMFP 3100, 3200

Relevant identified uses of the substance or mixture and uses advised against

General use: Fiberglass / epoxy prepreg
For industrial purposes only

Details of the supplier of the safety data sheet

Company name:

Airtech International, Inc.
5700 Skylab Road
Huntington Beach, CA 92647
E-mail: airtech@airtechintl.com
Website: www.airtechonline.com
Telephone: +1 714.899.8100
Dept. responsible for information:
Telephone: +1 714.899.8100
E-mail: airtech@airtechintl.com

Airtech Europe Sarl
Zone industrielle Haneboesch
L-4562 Differdange
Luxembourg
Website: www.airtech.lu
Telephone: +352 582.282
Dept. responsible for information:
Telephone: +352 582.282
E-mail: sales@airtech.lu

Tygavac Advanced Materials Ltd.
The Causeway
Broadway Business Park
Chadderton, Oldham
OL9 9XD United Kingdom
Website: www.tygavac.co.uk
Telephone: +44 161.947.1610
Dept. responsible for information:
Telephone: +44 161.947.1610
E-mail: sales@tygavac.co.uk

Airtech Asia Ltd.
No. 161 of Anyuan Rd
Chagugang County
Wuqing District
301721, Tianjin, P.R. China
Website: www.airtech.asia
Telephone: +86 22 8862 9800
Telefax: +86 22 8862 9900
Dept. responsible for information:
Telephone: +86 22 8862 9800
E-mail: airtech.asia@airtechasia.com.cn

Emergency phone number

CHEMTREC EMERGENCY PHONE:
Within USA/Canada: 1-(800)424-9300
International: +1 703-741-5970

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid
Form: Carbon fabric impregnated with viscous blue paste
Color: blue

Odor: characteristic

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Germ cell mutagenicity - Category 2; Carcinogenicity - Category 2; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word: **Warning**

Hazard statements: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing genetic defects.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

Precautionary statements:
Obtain special instructions before use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see ' First aid ' on this label).
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

Fibreglass fabric impregnated with an epoxy resin system

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 28064-14-4	Bisphenol-F-epichlorhydrine resin	25 - 50 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 5026-74-4	p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl) aniline	10 - 20 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Sensitization - skin - Category 1. Germ cell mutagenicity - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 80-08-0	4,4'-Diamino diphenyl sulfone	10 - 20 %	Acute Toxicity - oral - Category 4.
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	< 2 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 150-68-5	Monuron (ISO)	< 2 %	Acute Toxicity - oral - Category 4. Carcinogenicity - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.

Additional information: Contains Silicon dioxide. The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

In case of inhalation: Remove the casualty into fresh air and keep him calm. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Immediately get medical attention.

Following skin contact: Take off contaminated clothing and wash it before reuse. Wash immediately with plenty of water. Seek medical attention if irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Not applicable

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: nitrogen oxides (NO_x), aldehydes, acids, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool exposed containers with water spray.

Use a water fog to control vapors.

Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Avoid exposure.

Provide adequate ventilation. Wear appropriate protective equipment.

Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse.

Do not breathe gas/fume/vapour/spray. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

7. Handling and storage

Handling

Advices on safe handling: Obtain special instructions before use.

Provide adequate ventilation. Wear appropriate protective equipment.

Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse.

Do not breathe gas/fume/vapour/spray.

When using do not eat, drink or smoke. Wash hands before breaks and after work. Eye wash facility must be provided.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Refrigerated storage is recommended to maintain product quality.

This product may be stored at 41 °F for up to 12 months.

Hints on joint storage:

Incompatible materials: Strong oxidizing agents, strong Lewis acids or mineral acids.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7631-86-9	Silicon dioxide	USA: NIOSH: TWA	6 mg/m ³
		USA: OSHA: TWA	20 mppcf
		USA: OSHA: TWA	80 mg/m ³ (total dust)

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Skin protection	Wear suitable protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Neoprene or rubber. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
General hygiene considerations:	Avoid exposure - obtain special instructions before use. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not breathe gas/fume/vapour/spray. Have eye wash bottle or eye rinse ready at work place. Wash hands before breaks and after work. When using do not eat or drink.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: Carbon fabric impregnated with viscous blue paste Color: blue
Odor:	characteristic
Odor threshold:	No data available
pH value:	not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	>= 1

Density:	No data available
Water solubility:	negligible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions. This product may be stored at 41 °F for up to 12 months.
Possibility of hazardous reactions	No dangerous reactions with proper and specified storage and handling
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Strong oxidizing agents, strong Lewis acids or mineral acids
Hazardous decomposition products:	Exothermal decomposition with formation of: toxic gases, Nitrogen oxides (NO _x), aldehydes, acids, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. ATEmix calculated: > 2000 mg/kg Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation. Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. Germ cell mutagenicity/Genotoxicity: Germ cell mutagenicity - Category 2 = Suspected of causing genetic defects. Carcinogenicity: Carcinogenicity - Category 2 = Suspected of causing cancer. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.
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Other information: Chronic toxicity - Carcinogenic effect:
4,4'-Diamino diphenylsulfone:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Monuron (ISO):
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Silicon dioxide:
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: not applicable

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Bisphenol-F-epichlorhydrine resin:

TSCA Inventory: listed; UVCB; EPA flags XU

TSCA HPVC: not listed

p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline:

TSCA Inventory: listed; EPA flags T

TSCA HPVC: not listed

4,4'-Diamino diphenyl sulfone:

TSCA Inventory: listed

TSCA HPVC: not listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight <=700):

TSCA Inventory: listed; EPA flags XU

TSCA HPVC: not listed

Monuron (ISO):

TSCA Inventory: listed

TSCA HPVC: not listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Other Environmental Laws:

SARA Title III Section 313, Toxic

Release: Conc. 1.0% / Threshold Standard

Silicon dioxide:

TSCA Inventory: listed

TSCA HPVC: not listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

NIOSH Recommendations:

Occupational Health Guideline: 0552

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling:

Contains 25 - 50 % Bisphenol-F-epichlorhydrine resin, 10 - 20 % p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline, 10 - 20 % 4,4'-Diamino diphenyl sulfone, < 2 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), < 2 % Monuron (ISO). Safety data sheet available on request.

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

TMFP 3100, 3200

Material number 1057

Revision date: 9/4/2018
Version: 12
Language: en-US
Date of first version: 11/23/2009

Page: 9 of 9

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
		X

Reason of change: Changes in section 1: Company/undertaking identification

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programs for employees.

As the conditions and methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. All statements or suggestions are made without warranty, expressed or implied, regarding accuracy of information, the hazards connected with the use of the product or the results to be obtained from the use thereof.

1. Product and company identification

Product identifier

Trade name: TMGP-4000, 4100, 4200

Relevant identified uses of the substance or mixture and uses advised against

General use: Carbon epoxy prepreg
For industrial purposes only

Details of the supplier of the safety data sheet

Company name:

Airtech International, Inc.
5700 Skylab Road
Huntington Beach, CA 92647
E-mail: airtech@airtechintl.com
Website: www.airtechonline.com
Telephone: +1 714.899.8100
Dept. responsible for information:
Telephone: +1 714.899.8100
E-mail: airtech@airtechintl.com

Airtech Europe Sarl
Zone industrielle Haneboesch
L-4562 Differdange
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The Causeway
Broadway Business Park
Chadderton, Oldham
OL9 9XD United Kingdom
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E-mail: sales@tygavac.co.uk

Airtech Asia Ltd.
No. 161 of Anyuan Rd
Chagugang County
Wuqing District
301721, Tianjin, P.R. China
Website: www.airtech.asia
Telephone: +86 22 8862 9800
Telefax: +86 22 8862 9900
Dept. responsible for information:
Telephone: +86 22 8862 9800
E-mail: airtech.asia@airtechasia.com.cn

Emergency phone number

CHEMTREC EMERGENCY PHONE:
Within USA/Canada: 1-(800)424-9300
International: +1 703-741-5970

2. Hazards identification

Emergency overview

Appearance: Form: Carbon fabric impregnated with viscous blue paste

Color: blue

Odor: characteristic

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Germ cell mutagenicity - Category 2; Carcinogenicity - Category 2; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

Warning

Hazard statements: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing genetic defects.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

Precautionary statements: Obtain special instructions before use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see ' First aid ' on this label).
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

Carbon fabric impregnated with an epoxy resin system

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 28064-14-4	Bisphenol-F-epichlorhydrine resin	< 50 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 5026-74-4	p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline	< 25 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Sensitization - skin - Category 1. Germ cell mutagenicity - Category 2. Aquatic toxicity - chronic - Category 2.
CAS 80-08-0	4,4'-Diamino diphenyl sulfone	< 25 %	Acute Toxicity - oral - Category 4.
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	< 2 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 150-68-5	Monuron (ISO)	< 2 %	Acute Toxicity - oral - Category 4. Carcinogenicity - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.

4. First aid measures

In case of inhalation:	Remove the casualty into fresh air and keep him calm. In case of breathing difficulties administer oxygen. Immediately get medical attention.
Following skin contact:	Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of water. Seek medical attention if irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:	Decomposes before flashing.
Auto-ignition temperature:	No data available
Suitable extinguishing media:	Water spray jet, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: nitrogen oxides (NO_x), sulphur oxides, aldehydes, acids, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool exposed containers with water spray.

Use a water fog to control vapors.

Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Avoid exposure.

Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not inhale substance. Wear appropriate protective equipment. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

Do not touch or step on spilled substance.

7. Handling and storage

Handling

Advices on safe handling: Obtain special instructions before use.

Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not inhale substance. Wear appropriate protective equipment.

When using do not eat, drink or smoke. Wash hands before breaks and after work. Eye wash facility must be provided.

Storage

Requirements for storerooms and containers:

Refrigerated storage is recommended to maintain product quality.

This product may be stored at -0.4 °F for up to 12 months. Store locked up.

Hints on joint storage:

Incompatible materials: Strong oxidizing agents, strong Lewis acids or mineral acids.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection

Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection

Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Neoprene or rubber

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Provide adequate ventilation.

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust.

Wear a dust mask, in case of excessive dust.

Recommendation: Particulates filter N100 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid exposure - obtain special instructions before use. Have eye wash bottle or eye rinse ready at work place.

Wash hands before breaks and after work. When using do not eat or drink.

Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: Carbon fabric impregnated with viscous blue paste Color: blue
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Decomposes before flashing.
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reactions with proper and specified storage and handling
Conditions to avoid:	Keep away from heat.
Incompatible materials:	Strong oxidizing agents, strong Lewis acids or mineral acids

Hazardous decomposition products:

Exothermic decomposition with formation of: toxic gases, nitrogen oxides (NOx), sulphur oxides, aldehydes, acids, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix calculated: > 2000 mg/kg

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation -

Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Germ cell mutagenicity -

Category 2 = Suspected of causing genetic defects.

Carcinogenicity: Carcinogenicity - Category 2 = Suspected of causing cancer.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Chronic toxicity - Carcinogenic effect:

4,4'-Diamino diphenylsulfone:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Monuron (ISO):

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

14. Transport information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: not applicable

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Product: TSCA: All components listed

4,4'-Diamino diphenyl sulfone: Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Monuron (ISO): Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Other Environmental Laws:

SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling:

Contains < 50 % Bisphenol-F-epichlorhydrine resin, < 25 % p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline, < 25 % 4,4'-Diamino diphenyl sulfone, < 2 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), < 2 % Monuron (ISO). Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
		X

Reason of change:

Changes in section 1: Company/undertaking identification

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programs for employees.

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