

according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 1 of 9

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: TMFP 3100 and 3200

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

General use: Glass fiber / epoxy prepreg

For industrial purposes only

### 1.3 Details of the supplier of the safety data sheet

Company name: AIRTECH EUROPE SARL

Street/POB-No.: Z.I. Haneboesch
Postal Code, city: 4562 Differdange

Luxemburg

 www.
 www.airtech.lu

 E-mail:
 sales@airtech.lu

 Telephone:
 +352-582282-1

 Telefax:
 +352-584935

Dept. responsible for information:

Telephone: +352-582282-1, E-mail: sales@airtech.lu

#### 1.4 Emergency telephone number

GIZ-Nord, Germany Telephone: +49 (0)551-19240

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc. Cat. 3; R40 Limited evidence of a carcinogenic effect.

Muta. Cat. 3; R68 Possible risk of irreversible effects.

Xi; R36/38 Irritating to eyes and skin.

Sens.; R43 May cause sensitization by skin contact.

N; R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### 2.2 Label elements

#### Labelling (67/548/EEC or 1999/45/EC)



Xn



harmful dangerous for the environment

R phrase(s): R 36/38 Irritating to eyes and skin.

R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitization by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R 68 Possible risk of irreversible effects.



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 2 of 9

S phrase(s):	S 53	Avoid exposure - obtain special instructions before use.
	S 24	Avoid contact with skin.
	S 28	After contact with skin, wash immediately with soap and plenty of water.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S 60	This material and its container must be disposed of as hazardous waste.
	S 61	Avoid release to the environment. Refer to special instructions/safety data sheet.

#### Special labelling

Text for labelling:

Contains epoxy resin, p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline and Monuron

(ISO)

Restricted to professional users

#### 2.3 Other hazards

No risks worthy of mention.

# **SECTION 3: Composition / information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
NLP 500-006-8 CAS 28064-14-4	Bisphenol-F- epichlorhydrine resin	25-50 %	EU: Sens.; R43. N; R51-53. Xi; R36/38. CLP: Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.
EINECS 225-716-2 CAS 5026-74-4	p-(2,3- Epoxypropoxy) -N,N-bis(2,3- epoxypropyl) aniline	10-20 %	EU: Xn, N; Muta.Cat.3; R 36/38, 43, 51/53, 68 CLP: Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Muta. 2; H341. Aquatic Chronic 2; H411.
EINECS 201-248-4 CAS 80-08-0	4,4'-Diamino diphenyl sulfone	10-20 %	EU: Xn; R22. CLP: Acute Tox. 4; H302.
NLP 500-033-5 CAS 25068-38-6	Reaction product with Bisphenol A- epichlorhydrin epoxy resin (molecular weight = 700)	< 2 %	EU: Sens.; R43. N; R51-53. Xi; R36/38. CLP: Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.
EINECS 205-766-1 CAS 150-68-5	Monuron (ISÓ)	< 2 %	EU: Xn; R22. Carc. Cat. 3; R40. N; R50-53. CLP: Acute Tox. 4; H302. Carc. 2; H351. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.

Additional information: The ma

The maximum workplace exposure limits are expressed in Section 8, as may be required.

Contains Silicon dioxide

# **SECTION 4: First aid measures**

# 4.1 Description of 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.



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# **TMFP 3100 and 3200**

Material number TMFP Page: 3 of 9

In case of skin contact: Change contaminated clothing. 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. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media:

Water fog, foam, extinguishing powder.

Extinguishing media which must not be used for safety reasons:

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

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

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information: Hazchem-Code: 2Z

Use fine water spray to cool endangered containers.

Use water spray jet to knock down vapours.

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

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure.

Provide adequate ventilation. Wear protective equipment.

Avoid contact with skin, eyes, and clothing. Do not breathe gas/fumes/vapour/spray.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

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

#### 6.4 Reference to other sections

Refer additionally to chapter 8 and 13.



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Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 4 of 9

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use.

Provide adequate ventilation. Wear protective equipment.

Avoid contact with skin, eyes, and clothing. Do not breathe gas/fumes/vapour/spray.

#### 7.2 Conditions for safe storage, including any incompatibilities

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 5  $^{\circ}$ C for up to 12 mon th.

Storage class: 11 = Combustible solids

#### 7.3 Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No. Designation	Туре	Limit value
7631-86-9 Silicon dioxide	Great Britain: WEL-TWA Great Britain: WEL-TWA	2.4 mg/m³ (respirable fraction) 6 mg/m³ (inhalable fraction)

#### 8.2 Exposure controls

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

#### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Use filter type A-P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: Neoprene or rubber. Breakthrough time: >480 min.

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

Eye protection: Tightly sealed goggles according to EN 166.

General protection and hygiene measures:

Avoid exposure - obtain special instructions before use.

Avoid contact with skin, eyes, and clothing.

Take off contaminated clothing.

Do not breathe gas/fumes/vapour/spray.

Have eye wash bottle or eye rinse ready at work place.

Wash hands before breaks and after work.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance: Physical state: Carbon fabric impregnated with viscous blue paste

Colour: blue

Odour: characteristic
Odour threshold: no data available



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)  $\,$ 

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 5 of 9

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: no data available no data available Evaporation rate: no data available Flammability: no data available Explosive properties: no data available **Explosion limits:** no data available

Vapour pressure:no data availableVapour density:no data availableDensity:no data available

Water solubility: negligible

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

Viscosity, dynamic:

Explosive properties:

Oxidizing characteristics:

no data available
no data available
no data available
no data available

#### 9.2 Other information

Additional information: vapour density: > 1

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

refer to 10.3

#### 10.2 Chemical stability

Product is stable under normal storage conditions. This product may be stored at  $5 \, ^{\circ}$ C for up to 12 mon th.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Keep away from heat.

#### 10.5 Incompatible materials

Strong oxidizing agents, strong Lewis acids or mineral acids

#### 10.6 Hazardous decomposition products

Exothermal decomposition with formation of: toxic gases.

In case of fire may be liberated: nitrogen oxides (NOx), aldehydes, acids, carbon

monoxide and carbon dioxide.

Thermal decomposition: no data available



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)  $\,$ 

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 6 of 9

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation. Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic

defects.

Carcinogenicity: Carc. 2; H351 = 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.

Carcinogenic, germ cell mutagen and reproduction effects:

Carc. Cat. 3 - Limited evidence of a carcinogenic effect. Muta. Cat. 3 - Possible risk of irreversible effects.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

# 12.2. Persistence and degradability

Further details: no data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

no data available

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

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



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

### TMFP 3100 and 3200

Material number TMFP Page: 7 of 9

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other

dangerous substances.

MFSU = manufacture, formulation, supply and use

\* = Evidence for disposal must be provided.

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

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging.

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA: 3077

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Bisphenol F Epoxy Resin and p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline)

#### 14.3 Transport hazard class(es)

ADR/RID: Class 9, Code: M7
IMDG: Class 9, Subrisk -

IATA: Class 9

#### 14.4 Packing group

ADR/RID, IMDG, IATA:

#### 14.5 Environmental hazards

Marine pollutant: Yes

# 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 90, UN number 3077

Hazard label:

Special provisions: 274 335 601

Limited quantities: 5 kg EQ: 5 kg

Contaminated packaging - Instructions: P002 IBC08 LP02 R001

Contaminated packaging - Special provisions: PP12 B3

Special provisions for packing together: MP10

Portable tanks - Instructions: T1 BK1 BK2

Portable tanks - Special provisions: TP33

Tank coding: SGAV LGBV

Tunnel restriction code:







according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)  $\,$ 

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 8 of 9

Sea transport (IMDG)

EmS: F-A, S-F

Special provisions: 274, 335, 966, 967

Limited quantities: 5 kg EQ: 5 kg

Tank instructions - UN: T1, BK2, BK2, BK3

Tank instructions - Provisions: TP33

Stowage and segregation: Category A. When transported in BK3 bulk container, see 7.6.2.12 and

7.7.3.9.

Properties and observations:

Segregation group: none

Air transport (IATA)

Hazard: Miscellaneous

EQ: E1

Passenger Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg

Special Provisioning: A97 A158 A179

ERG: 9L

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

# SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations - Great Britain

Hazchem-Code: 2Z

#### National regulations - EC member states

Volatile organic compounds (VOC):

< 10 g/L

Labelling of packaging with <= 125mL content

R phrase(s): R 36/38 Irritating to eyes and skin.

R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitization by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Possible risk of irreversible effects.

S phrase(s): S 53 Avoid exposure - obtain special instructions before use.

S 24 Avoid contact with skin.

S 28 After contact with skin, wash immediately with soap and plenty of water.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
This material and its container must be disposed of as bazardous waster.

S 60 This material and its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instructions/safety data

sheet.



according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010 (REACH)

Revision date: 07/02/2013 Version: 3 Language: en-GB,IE Date of print: 29/10/2013

# TMFP 3100 and 3200

Material number TMFP Page: 9 of 9

#### National regulations - USA

Hazard rating systems:

Hazard rating system 2 0

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



### 15.2 Chemical Safety Assessment

no data available

#### **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H341 = Suspected of causing genetic defects.

H351 = Suspected of causing cancer.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H411 = Toxic to aquatic life with long lasting effects.

Wording of the R-phrases under paragraph 2 and 3:

R 22 = Harmful if swallowed.

R 36/38 = Irritating to eyes and skin.

R 40 = Limited evidence of a carcinogenic effect. R 43 = May cause sensitization by skin contact.

R 50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R 51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R 68 = Possible risk of irreversible effects.

Reason of change: Changes in section 2: classification, labelling: GHS

Changes in section 8: occupational exposure limit value

General revision

Date of first version: 23/11/2009

Department issuing data sheet

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

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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 programmes for employees.

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