Regulation EC Nr. 1907/2006 Art.31

Product name: EM-Tec AG32 Silver filled epoxy, part A **Document Nr.:** SDS00115002433A-02

Date: July 22nd 2022 Version: 3.0

Section 1: Identification of the substance or mixture and the company

1.1. Product Identifier

EM-Tec AG32 long pot file, high conductivity silver filled epoxy

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

Silver filled electrically conductive epoxy resin for use with hardener. Making electrically conductive bonds. Uses advised against: Not available

1.3. Details of the supplier of the Safety Data Sheet

Vof Micro to Nano Tappersweg 91 2031ET Haarlem Netherlands Tel: +31(0)85-2013155 E: info@microtonano.com

1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical:	Low flammability
Health:	Skin corrosion/irritation category 2
Environment:	Chronic aquatic hazard category 1
	Acute aquatic hazard category 1
Other hazards:	None

Classification according to Regulation EC Nr. 1272/2008

Xi: Irritant Xn: Harmful Health: Physical Environment:

R38: Irritating to skin Not classified R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in

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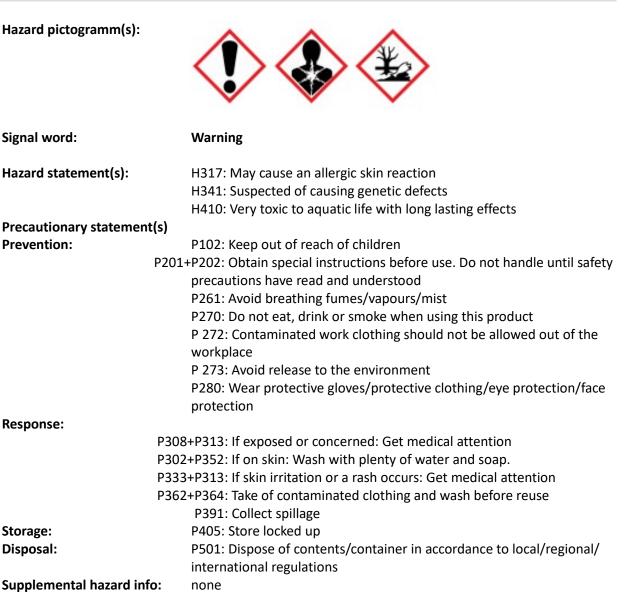
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Other hazards:

the aquatic environment Not classified

2.2 Labeling elements

Labelling accordance to Regulation EC Nr. 1272/2008



2.3 Other hazards



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Argyria warning:	Long term ingestion or inhalation of silver dust can lead to an irreversible blue-grey discoloration of the skin
Dermatitis or Eczema's:	Prolonged and repeated exposure to uncured epoxy resins may cause dermatitis or eczema's

Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

Component	CAS Nr.	WT%
Silver flakes (<1mm) - Ag	7440-22-4	50-80
4,4'-methylene bis [N,N-bis(2-oxiranylmethyl) aniline]	28768-32-3	15-40
Neopentyl glycol diglycidyl ether	17557-23-2	1-5

(* Explanation notes: see section 16)

Section 4: First aid measures

4.1. Description of first aid measures

Contact with eyes:	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. Seek medical attention if irritation persists.
Contact with skin:	Wash with water and soap. Seek medical attention if irritation persists.
Inhalation:	Fresh air, keep warm and at rest. Seek medical attention of ill effects occur
Ingestion:	If swallowed, do not induce vomiting Seek immediate medical advice If vomiting appears imminent or occurs hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. Never give liquid to a person with reduced awareness Give water to rinse out mouth, then provide water slowly as much as casually can comfortably drink Avoid giving milk or oils



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Avoid giving alcohol

4.2. Important symptoms and effects, either immediate or delayed

Inhalation:	May cause irritation of the respiratory tract
	Symptoms: cough, sore throat, asthma
Ingestion:	May cause digestive tract irritation
	Symptoms: sore throat, abdominal pain, nausea, vomiting
Skin contact:	Mildly irritating to skin
	Symptoms: redness and pain
Eye contact:	Irritating to eyes
	Symptoms: redness and pain, impaired vision

4.3. Indication of any immediate medical attention and special treatment

General advice: If you feel unwell, seek medical advice; show product label if possible If symptoms persist, always call a doctor

Section 5: Firefighting Measures

5.1. Extinguishing media

Use dry sand, graphite or sodium chloride-based extinguishers. DO NOT USE WATER, CO2 or FOAM.

5.2 Special hazards arising from the substance or mixture

Not flammable or combustible but will burn if involved in a fire. Produces carbon oxides (CO, CO2), irritating smoke and toxic fumes in fires

5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover Wear self-contained breathing apparatus and full firefighting turn-out gear

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Wear suitable protective clothing including eye/face protection



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6.2 Environmental precautions

Avoid release to the environment Do not allow to enter public sewers and waterways

6.3 Methods and material for containment and clean up

Clean up spills immediately

Collect spillage and wipe residue with a paper towel wetted with alcohol. Collect spillage and dirty towels in a sealable waste container Wash spill area with soap and water to remove last traces of residue

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust/fumes/mist/vapours Ensure adequate ventilation Avoid contact with skin and eyes Wash thoroughly after use Wear protective gloves/protective clothing/eye protection

7.2 Conditions for safe storage, including any incompatibilities

Store locked up in a cool dry place Keep out of reach of children

7.3 Specific end uses(s)

Silver filled electrically conductive epoxy resin for use with hardener. Making electrically conductive bonds.

Section 8: Exposure control and personal protection



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8.1. Control parameters

Exposure limits

Occupational exposure limits (OEL)

Ingredient	TWA	STEL	Peak	Notes
Silver flakes (<1mm) - Ag	0.1mg/m3	Not available	Not available	Not available
4,4'-methylenebis [N,N-bis(2-oxiranylmethyl) aniline]	Not available	Not available	Not available	Not available
Neopentyl glycol diglycidyl ether	Not available	Not available	Not available	Not available
EM-Tec AG32 Silver filled epoxy, part A	Not available	Not available	Not available	Not available

8.2 Exposure controls

Control procedures: Personal protection: Inhalation:	Ensure adequate ventilation Take precautions to avoid contact with eyes and skin when handling the products In case of insufficient ventilation, wear suitable respiratory equipment:
	Air purifying respirator with organic gas/vapour cartridge (type A)
Hands and skin:	Wear suitable gloves against chemicals; recommended gloves: Nitrile
Eyes:	Wear safety goggles or full-face protection

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	Solid, paste
Colour:	Silver grey
Odour:	Not available
рН	Not available
Boiling point/range:	Not available
Flash point:	≥127°C (closed cup)
Evaporation rate:	Not available
Explosion limits: upper limit:	Not available
lower limit:	Not available
Vapour pressure:	Not available
Specific gravity:	2.59 g/cm3 @ 20°C
Solubility in water:	Insoluble
Auto-ignition:	Not available
Viscosity @40°C :	>>20.5 mm²/s



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9.2 Other information

VOC:

Not available

Section 10: Stability and reactivity

10.1. Reactivity

Reacts with amines

10.2 Chemical stability

Stable at normal temperatures and pressures

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

10.4 Conditions to avoid

Incompatible substances

10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases, acetylene, ammonia, strong hydrogen peroxides

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2), irritating smoke and toxic fumes

Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation:	May cause cough, irritation of the respiratory tract, sore throat or asthma
Ingestion:	May cause irritation
Skin contact:	May cause mild skin irritation, redness, or rash
Eye contact:	May cause redness, mild eye irritation
Chronic:	Prolonged and repeated exposure may lead to skin sensitisation
	Prolonged and repeated ingestion or inhalation of silver may yield to an irreversible

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blue-grey discoloration of the skin

Toxicological data:

Ingredient	Toxicity	Irritation
Silver, metal	Dermal (rabbit) LD: 2000mg/kg	Not established
	Inhalation (rat) LC50: 5.16mg/L (4h)	Not established
	Oral (Guinea pig) LD50: >5g/kg	Not established
4,4'-methylenebis [N,N-bis(2- oxiranylmethyl) aniline]	Dermal (rabbit) LD: 3000g/kg	Not established
	Inhalation (rat) LC50: 24g/m3 (4h)	Not established
	Oral (rat) LD50: 5g/kg	Not established
Neopentyl glycol diglycidyl ether	Dermal (rabbit) LD: 2150mg/kg	Not established
	Inhalation (rat) LC50: Not established	Not established
	Oral (rat) LD50: 2000 mg/kg	Not established
EM-Tec AG32 Silver filled epoxy, part A	Not established	Not established

Section 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life

12.2 Persistence and degradability

The content is not readily biodegradable

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available



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12.5 Results of PBT and vPvB assessment

No information available

12.6 Hazardous decomposition products

No experimental data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product:This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste
collection point.National regulations:Disposal should be in accordance with local, state or national legislation.

Section 14: Transport information

Labels required:

14.1. UN number		
UN-number:	3077	
14.2 UN proper shipping name		
Proper shipping name:	Environmentally hazardous	substance, solid, N.O.S.
14.3 Transport hazard class(es)		
Class: ADR/RID-Classification code:	9 E1	
14.4 Packing group		
Packing: Limited Quantity: Excepted Quantity: Microto Na Innovative Microscopy Sup		
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14.5 Incompatible materials

ADR/RID- Environmentally hazardous: Not applicable IMDG-Marine pollutant: Yes IATA/ICAO-Environmentally hazardous:Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

Section 15: Regulatory information

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

UN-number:

3077

15.2 Chemical safety assessment

All substances are listed

Section 16: Other information

RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant



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LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bioaccumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
SEM	Scanning Electron Microscope
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TCLo	Lowest published toxic concentration
vPvB	very Persistent and very Bioaccumulative
WEEE	Waste Electrical and Electronic Equipment

DSD / DPD label elements



Full Text Risk and Hazard codes

H317: May cause an allergic skin reaction

- H341: Suspected of causing genetic defects
- H411: Toxic to aquatic life with long lasting effects

R38: Irritating to skin

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety advice:

- S02 Keep out of reach of children.
- S09 Keep container in a well-ventilated place.
- S13 Keep away from food, drink, and animal feeding stuff.
- S23 Do not breath gas/fumes/vapour/spray.
- S26 In case of contact with eyes, rinse with plenty of water and seek medical help.
- S281 After contact with skin, wash immediately with detergent and plenty of waterways.
- S29 Do not empty in drains.
- S35 This material and its container must be disposed of in a safe way.
- S36 Wear suitable protective clothing.
- S37 Wear suitable gloves.
- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S39 Wear eye / face protection.



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- S40 In case of insufficient ventilation, wear suitable respiratory equipment.
- S43 In case of fire use....
- S45 In case of accident or if you feel unwell, immediately contact Doctor or Poisons information center (show label if possible).
- S46 If swallowed, seek immediate medical advice and show label if possible.
- S52 Not recommended for interior use on large surfaces.
- S53 Avoid exposure obtain special instructions before use.
- S56 Dispose of this material and its container at hazardous or special waste collection point.
- S57 Use appropriate container to avoid environment contamination.
- S61 Avoid release to the environment
- S63 In case of accident by inhalation, remove casualty to fresh air and keep at rest.
- S64 If swallowed, rinse mouth with water (only if person is conscious)

This product should be stored, handled, and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.



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Product name: EM-Tec AG32 Silver filled epoxy, part B **Document Nr.:** SDS00115002433B-02

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Section 1: Identification of the substance or mixture and the company

1.1. Product Identifier

EM-Tec AG32 long pot file, high conductivity silver filled epoxy

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

Silver filled electrically conductive epoxy hardener for use with resin. Making electrically conductive bonds. Uses advised against: Not available

1.3. Details of the supplier of the Safety Data Sheet

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1.4 Emergency telephone number

112 (NLD) or your national emergency telephone number for chemical spills, leaks, fires, exposures or accidents

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical:	Low flammability
Health:	Corrosive to eyes category 1
	Skin corrosion/irritation category 1
Environment:	Chronic aquatic hazard category 1
	Acute aquatic hazard category 1
Other hazards:	None

Classification according to Regulation EC Nr. 1272/2008

Xi: Irritant Xn: Harmful C: Corrosive Health: R3

R38: Irritating to skin



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	R41: Risk of serious damage to eyes
Physical	Not classified
Environment:	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Other hazards:	Not classified

2.2 Labeling elements

Labelling accordance to Regulation EC Nr. 1272/2008

-			
Hazard	pictogramm(c	۱.
nazara	piccogrammi		•

Signal word:	Danger					
Hazard statement(s):	H318: Causes serious eye damage H315: Causes skin irritation H317: May cause an allergic skin reaction H410: Very toxic to aquatic life with long lasting effects					
Precautionary stateme						
Prevention:	P102: Keep out of reach of children P201+P202: Obtain special instructions before use. Do not handle until safety precautions have read and understood P261: Avoid breathing fumes/vapours/mist P270: Do not eat, drink or smoke when using this product P 272: Contaminated work clothing should not be allowed out of the workplace P 273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection					
Response:	P308+P313: If exposed or concerned: Get medical attention P302+P352: If on skin: Wash with plenty of water and soap. P333+P313: If skin irritation or a rash occurs: Get medical attention P362+P364: Take of contaminated clothing and wash before reuse P391: Collect spillage					
Storage:	P405: Store locked up					



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Disposal:	P501: Dispose of contents/container in accordance to local/regional/ international regulations	
Supplemental hazard info:	none	
2.3 Other hazards		
Argyria warning:	Long term ingestion or inhalat blue-grey discoloration of the	ion of silver dust can lead to an irreversible skin

Section 3: Composition / information on components

3.1. Substances

Not applicable

3.2 Mixtures

Component	CAS Nr.	WT%
Silver flakes (<1mm) - Ag	7440-22-4	60-90
9,12-octadecadienoid acid based polyamidoamine	68541-13-9	7-13
Fatty acid-polyethylamine polymer	68082-29-1	5-10
3,3'-[Oxybis(2,1-ethane-diyloxy)]bis-1-propanamine	4246-51-9	1-5
triethylenetetramine	112-24-3	0.5-1.5

(* Explanation notes: see section 16)

Section 4: First aid measures

4.1. Description of first aid measures

Contact with eyes:	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. Seek medical attention if irritation persists.
Contact with skin:	Wash with water and soap.
	Seek medical attention if irritation persists.
Inhalation:	Fresh air, keep warm and at rest.
	Seek medical attention of ill effects occur
Ingestion:	If swallowed, do not induce vomiting
	Seek immediate medical advice
	If vomiting appears imminent or occurs hold patient's head down, lower than their



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hips to help avoid possible aspiration of vomitus. Never give liquid to a person with reduced awareness Give water to rinse out mouth, then provide water slowly as much as casually can comfortably drink Avoid giving milk or oils Avoid giving alcohol

4.2. Important symptoms and effects, either immediate or delayed

Eye contact:	Corrosive to eyes
	Symptoms: redness, severe irritation, pain, burns
Skin contact:	Irritating to skin
	Symptoms: redness, severe irritation, rash (allergic contact dermatitis)
Inhalation:	May cause irritation of the respiratory tract
	Not available
Ingestion:	May cause digestive tract irritation
	Symptoms: sore throat, abdominal pain, nausea, vomiting

4.3. Indication of any immediate medical attention and special treatment

General advice:If you feel unwell, seek medical advice; show product label if possible
If symptoms persist, always call a doctor

Section 5: Firefighting Measures

5.1. Extinguishing media

Use dry sand, graphite or sodium chloride based extinguishers. DO NOT USE WATER, CO2 or FOAM

5.2 Special hazards arising from the substance or mixture

Not flammable or combustible, but will burn if involved in a fire. Produces carbon oxides (CO, CO2), irritating smoke and toxic fumes in fires Inhalation of toxic smoke or fumes may have delayed effects. Exposed person may need to be put under surveillance for 48 hrs.

5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover Wear self-contained breathing apparatus and full firefighting turn-out gear



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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Wear suitable protective clothing including eye/face protection

6.2 Environmental precautions

Avoid release to the environment Do not allow to enter public sewers and waterways

6.3 Methods and material for containment and clean up

Clean up spills immediately Collect spillage and wipe residue with a paper towel wetted with alcohol. Collect spillage and dirty towels in a sealable waste container made of plastic or steel Avoid containers with copper, aluminium, zinc or galvanised surfaces since the waste material can slowly oxidises these metals. Wash spill area with soap and water to remove last traces of residue

6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust/fumes/mist/vapours Ensure adequate ventilation Avoid contact with skin and eyes Wash thoroughly after use Wear protective gloves/protective clothing/eye protection

7.2 Conditions for safe storage, including any incompatibilities

Store locked up in a cool dry place Keep out of reach of children

7.3 Specific end uses(s)



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Silver filled electrically conductive epoxy hardener for use with resin. Making electrically conductive bonds.

Section 8: Exposure control and personal protection

8.1. Control parameters

Exposure limits

Occupational exposure limits (OEL)

Ingedrient	TWA	STEL	Peak	Notes
Silver flakes (<1mm) - Ag	0.1mg/m3	Not available	Not available	Not available
triethylenetetramine	0.5mg/m3	Not available	Not available	Not available
EM-Tec AG32 Silver filled epoxy, part B	Not available	Not available	Not available	Not available

8.2 Exposure controls

;
2

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	Solid, paste
Colour:	Silver grey
Odour:	Amine-like
рН	Not available
Boiling point/range:	>221°C
Flash point:	>93°C (closed cup)
Evaporation rate:	Not available
Explosion limits: upper limit:	Not available
lower limit:	Not available
Vapour pressure:	<0.48 KpA



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Specific gravity:	2.89 g/cm3 @ 25°C
Solubility in water:	Insoluble
Auto-ignition:	Not available
Viscosity @40°C :	>>20.5 mm ² /s
viscosity @40 C.	>>20.5 mm /3

9.2 Other information

VOC:

Not available

Section 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with ketones and epoxides. May react violently with peroxides. May slowly attack metals such as aluminium, zinc, copper and their alloys.

10.2 Chemical stability

Stable at normal temperatures and pressures

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purposes

10.4 Conditions to avoid

Avoid excessive heat and incompatible substances

10.5 Incompatible materials

Strong oxidising agents, strong acids, peroxides

10.6 Hazardous decomposition products

Carbon oxides (CO, CO2), ammonia, nitric aces, nitrogen oxides (NOx) and silver metal fumes

Section 11: Toxicological information

11.1. Information on toxicological effects



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Information on likely routes of exposure:

Eye contact: Skin contact:	May cause redness, severe eye irritation, pain or corrosive eye damage May cause serious skin irritation, redness, allergic contact dermatitis and chemical burns Triethylenetetramine can be absorbed through the skin leading to toxic effects Hot triethylenetetramine vapours may also result in itching of the face skin with redness and swelling
Inhalation: Ingestion: Chronic:	May cause cough, irritation of the respiratory tract May cause irritation Prolonged and repeated exposure may lead to skin sensitisation Prolonged and repeated ingestion or inhalation of silver may yield to an irreversible blue-grey discoloration of the skin

Toxicological data:

Ingredient	Toxicity	Irritation
Silver, metal	Dermal (rabbit) LD: 2000mg/kg	Not established
	Inhalation (rat) LC50: 5.16mg/L (4h)	Not established
	Oral (Guinea pig) LD50: >5g/kg	Not established
9,12-octadecadienoid acid based polyamidoamine	Dermal (rabbit) LD: Not established	Not established
	Inhalation (rat) LC50: Not established	Not established
	Oral (rat) LD50: >2g/kg	Not established
Fatty acid-polyethylamine polymer	Dermal (rabbit) LD: Not established	Not established
	Inhalation (rat) LC50: Not established	Not established
	Oral (rat) LD50: >2g/kg	Not established
3,3'-[Oxybis(2,1-ethane- diyloxy)]bis-1-propanamine	Dermal (rabbit) LD: 2150mg/kg	Not established
	Inhalation (rat) LC50: Not established	Not established
	Oral (rat) LD50: 4310 mg/kg	Not established
triethylenetetramine	Dermal (rabbit) LD: 805mg/kg	Not established
	Inhalation (rat) LC50: Not established	Not established
	Oral (rat) LD50: 2500 mg/kg	Not established
EM-Tec AG32 Silver filled epoxy, part B	Not established	Not established



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Section 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life

12.2 Persistence and degradability

The content is not readily biodegradable

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Hazardous decomposition products

No experimental data available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product:	This material and its container must be disposed of in a safe way.	
	Do not discharge into drains or the environment, dispose to an authorised waste	
	collection point.	
National regulations:	Disposal should be in accordance with local, state, or national legislation.	



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Section 14: Transport information	
Labels required:	
14.1. UN number	
UN-number:	3077
14.2 UN proper shipping name	
Proper shipping name:	Environmentally hazardous substance, solid, N.O.S.
14.3 Transport hazard class(es)	
Class: ADR/RID-Classification code:	9 E1
14.4 Packing group	
Packing: Limited Quantity: Excepted Quantity:	III 5kg 30g
14.5 Incompatible materials	
ADR/RID- Environmentally hazardo IMDG-Marine pollutant: IATA/ICAO-Environmentally hazardo	Yes
14.6 Special precautions for user	
Not applicable	
14.7 Transport in bulk according to Ann	ex II of MARPOL73/78 and the IBC code
Not applicable	
_	



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Section 15: Regulatory information

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

UN-number:

3077

15.2 Chemical safety assessment

All substances are listed

Section 16: Other information

RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

Abbreviations:

Asp. Tox	Aspiration hazard
Carc.	Carcinogenicity
Exp.	Exposure
Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
N/A	Not applicable
N/E	Not estimated
PBT	Persistent Bioaccumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
SEM	Scanning Electron Microscope
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TCLo	Lowest published toxic concentration
vPvB	very Persistent and very Bioaccumulative



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WEEE Waste Electrical and Electronic Equipment

DSD / DPD label elements



Full Text Risk and Hazard codes

H318: Causes serious eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H410: Very toxic to aquatic life with long lasting effects

R38: Irritating to skin

R41: Risk of serious damage to eyes

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety advice:

- S02 Keep out of reach of children.
- S09 Keep container in a well-ventilated place.
- S13 Keep away from food, drink, and animal feeding stuff.
- S23 Do not breath gas/fumes/vapour/spray.
- S26 In case of contact with eyes, rinse with plenty of water and seek medical help.
- S281 After contact with skin, wash immediately with detergent and plenty of waterways.
- S29 Do not empty in drains.
- S35 This material and its container must be disposed of in a safe way.
- S36 Wear suitable protective clothing.
- S37 Wear suitable gloves.
- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S39 Wear eye / face protection.
- S40 In case of insufficient ventilation, wear suitable respiratory equipment.
- S43 In case of fire use....
- S45 In case of accident or if you feel unwell, immediately contact Doctor or Poisons information center (show label if possible).
- S46 If swallowed, seek immediate medical advice and show label if possible.
- S52 Not recommended for interior use on large surfaces.
- S53 Avoid exposure obtain special instructions before use.
- S56 Dispose of this material and its container at hazardous or special waste collection point.



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S57 – Use appropriate container to avoid environment contamination.

S61 – Avoid release to the environment

S63 – In case of accident by inhalation, remove casualty to fresh air and keep at rest.

S64 – If swallowed, rinse mouth with water (only if person is conscious)

This product should be stored, handled, and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.



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