

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

1.1 Product identifier:

Epicol Inj A

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

For professional use only

Concentration in use: /

1.3 Details of the supplier of the safety data sheet:

RESIPLAST NV

Gulkenrodestraat 3

B2160 Wommelgem

Phone: 033200211 — Fax: 033226380

E-mail: info@resiplast.be — Website: <http://www.resiplast.be/>

1.4 Emergency telephone number:

+32 70 245 245

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H302 Acute tox. 4 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H341 Muta. 2
H411 Aquatic Chronic 2

2.2 Label elements:

Pictograms:



Signal word:

Warning

Hazard statements:

H302 Acute tox. 4:	Harmful if swallowed.
H315 Skin Irrit. 2:	Causes skin irritation.
H317 Skin Sens. 1:	May cause an allergic skin reaction.
H319 Eye Irrit. 2:	Causes serious eye irritation.
H341 Muta. 2:	Suspected of causing genetic defects.
H411 Aquatic Chronic 2:	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280:	Wear protective gloves, protective clothing, eye protection, face protection.
P301+P312:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313:	IF exposed or concerned: Get medical advice/attention.
P362+P364:	Take off contaminated clothing and wash it before reuse.
P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

Reaction product of Bisphenol-A-epichlorhydrin epoxy resin (average molecular weight \leq 700) 1,6-bis(2,3-epoxypropoxy)hexane 2,3-epoxypropyl neodecanoate

2.3 Other hazards:

none

3 SECTION 3: Composition/information on ingredients:

Reaction product of Bisphenol-A-epichlorhydrin epoxy resin (average molecular weight \leq 700)	> 30%	CAS number: 25068-38-6 EINECS: 500-033-5 REACH Registration number: 01-2119456619-26 CLP Classification: H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H411 Aquatic Chronic 2
1,6-bis(2,3-epoxypropoxy)hexane	> 30%	CAS number: 16096-31-4 EINECS: 240-260-4 REACH Registration number: 01-2119463471-41 CLP Classification: H302 Acute tox. 4 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H412 Aquatic Chronic 3
2,3-epoxypropyl neodecanoate	5% - 15%	CAS number: 26761-45-5 EINECS: 247-979-2 REACH Registration number: 01-2119431597-33 CLP Classification: H317 Skin Sens. 1 H341 Muta. 2 H411 Aquatic Chronic 2

For the full text of the H & R phrases mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact:	remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital.
Eye contact:	first prolonged rinsing with water (contact lenses to be removed if this is easily done) then take to physician.
Ingestion:	rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation:	let sit upright, fresh air, rest and take to hospital.

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

Skin contact:	caustic, redness, pain, serious burns
Eye contact:	caustic, redness, bad looking, pain
Ingestion:	caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach
Inhalation:	headache, dizziness, nausea, drowsiness, unconsciousness

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

none

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO₂, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

none

5.3 Advice for fire-fighters:

Extinguishing agents to be avoided: none

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

remove by using absorbent material.

6.4 Reference to other sections:

for further information check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

For professional use only

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

/

8.2 Exposure controls:

Inhalation protection:	use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against these troublesome levels.	
Skin protection:	handling with nitril-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	/
Boiling point/Boiling range:	/
pH:	/
pH 1% diluted in water:	/
Vapour pressure/20°C,:	/
Vapour density:	not applicable
Relative density, 20°C:	1.250 kg/l
Appearance/20°C:	liquid
Flash point:	/

Flammability (solid, gas):	not applicable
Auto-ignition temperature:	/
Upper flammability or explosive limit, (Vol %):	/
Lower flammability or explosive limit, (Vol %):	/
Explosive properties:	not applicable
Oxidising properties:	not applicable
Decomposition temperature:	/
Solubility in water:	not soluble
Partition coefficient: n-octanol/water:	not applicable
Odour:	characteristic
Odour threshold:	not applicable
Dynamic viscosity, 20°C:	325 mPa.s
Kinematic viscosity, 20°C:	260 mm ² /s
Evaporation rate (n-BuAc = 1):	/

9.2 Other information:

Volatile organic component (VOC):	/
Volatile organic component (VOC):	0.000 g/l

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

stable under normal conditions.

10.2 Chemical stability:

extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

none

10.4 Conditions to avoid:

protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

none

10.6 Hazardous decomposition products:

doesn't decompose with normal use

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H302 Acute tox. 4:	Harmful if swallowed.
H315 Skin Irrit. 2:	Causes skin irritation.

H317 Skin Sens. 1: May cause an allergic skin reaction.
H319 Eye Irrit. 2: Causes serious eye irritation.
H341 Muta. 2: Suspected of causing genetic defects.

Calculated acute toxicity, ATE oral: 1 351.351 mg/kg

Calculated acute toxicity, ATE dermal: /

Reaction product of Bisphenol-A-epichlorhydrin epoxy resin (average molecular weight ≤ 700)	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
1,6-bis(2,3-epoxypropoxy)hexane	LD50 oral, rat: 500 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
2,3-epoxypropyl neodecanoate	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

Reaction product of Bisphenol-A-epichlorhydrin epoxy resin (average molecular weight ≤ 700)	LC50 (Fish): 3.6 mg/L (96h) EC50 (Daphnia): 1.1 mg/L (48h) EC50 (Algae): 9.1 mg/L (48h) NOEC (Algae): 2.4 mg/L (72h)
1,6-bis(2,3-epoxypropoxy)hexane	LC50 (Fish): 30 mg/L (96h) EC50 (Daphnia): ca. 57 mg/L (48h)
2,3-epoxypropyl neodecanoate	LC50 (Fish): 5 mg/L (96h) EC50 (Daphnia): 4,8 mg/L (96h) EC50 (Algae): 2,9 mg/L (72h)

12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK: 3
Solubility in water: not soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

3082

14.2 UN proper shipping name:

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (mixture with Reaction product of Bisphenol-A-epichlorhydrin epoxy resin (average molecular weight ≤ 700)), 9, III, (E)

14.3 Transport hazard class(es):

Class(es):	9
Identification number of the hazard:	90

14.4 Packing group:

III

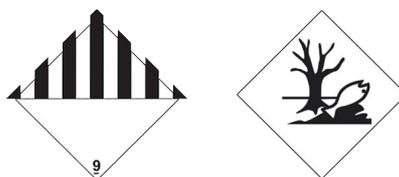
14.5 Environmental hazards:

environmentally hazardous

14.6 Special precautions for user:

Hazard characteristics: Risk to the aquatic environment and the sewerage system.

Additional guidance:



15 SECTION 15: Regulatory information:

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

Water hazard class, WGK:	3
Volatile organic component (VOC):	/
Volatile organic component (VOC):	0.000 g/l
Composition by regulation (EC) 648/2004:	none

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
BCF:	Bioconcentration factor
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging of chemicals
EINECS:	European INventory of Existing Commercial chemical Substances
Nr.:	number
PTB:	persistent, toxic, bioaccumulative
TLV:	Threshold Limit Value
vPvB:	very persistent and very bioaccumulative substances
WGK:	Water hazard class
WGK 1:	slightly hazardous for water
WGK 2:	hazardous for water
WGK 3:	extremely hazardous for water

Legend to the R & H Phrases used in the safety data sheet:

H302 Acute tox. 4: Harmful if swallowed. **H315 Skin Irrit. 2:** Causes skin irritation. **H317 Skin Sens. 1:** May cause an allergic skin reaction. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H341 Muta. 2:** Suspected of causing genetic defects. **H411 Aquatic Chronic 2:** Toxic to aquatic life with long lasting effects. **H412 Aquatic Chronic 3:** Harmful to aquatic life with long lasting effects.

Reason of revision, changes of following items:

Section: 2.2

MSDS reference number:

ECM-106390,00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

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

1.1 Product identifier:

Epicol Inj B

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

For professional use only

Concentration in use: /

1.3 Details of the supplier of the safety data sheet:

RESIPLAST NV

Gulkenrodestraat 3

B2160 Wommelgem

Phone: 033200211 — Fax: 033226380

E-mail: info@resiplast.be — Website: <http://www.resiplast.be/>

1.4 Emergency telephone number:

+32 70 245 245

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H302 Acute tox. 4 H314 Skin Corr. 1B H317 Skin Sens. 1 H341 Muta. 2 H412 Aquatic Chronic 3

2.2 Label elements:

Pictograms:



Signal word:

Danger

Hazard statements:

H302 Acute tox. 4:	Harmful if swallowed.
H314 Skin Corr. 1B:	Causes severe skin burns and eye damage.
H317 Skin Sens. 1:	May cause an allergic skin reaction.
H341 Muta. 2:	Suspected of causing genetic defects.
H412 Aquatic Chronic 3:	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260:	Do not breathe dust/vapours/spray.
P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310:	Immediately call a POISON CENTER or doctor/physician.
P405:	Store locked up.
P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

Isophoronediamine Benzyl alcohol 2,4,6-Tris(dimethyl amino methyl)phenol m-phenylenebis(methylamine)

2.3 Other hazards:

none

3 SECTION 3: Composition/information on ingredients:

Isophoronediamine	15% - 30%	CAS number: 2855-13-2 EINECS: 220-666-8 REACH Registration number: 01-2119514687-32 CLP Classification: H302+H312 Acute tox. 4 H314 Skin Corr. 1B H317 Skin Sens. 1 H412 Aquatic Chronic 3
Benzyl alcohol	15% - 30%	CAS number: 100-51-6 EINECS: 202-859-9 REACH Registration number: 01-2119492630-38 CLP Classification: H302 Acute tox. 4 H319 Eye Irrit. 2 H332 Acute tox. 4
m-phenylenebis(methylamine)	5% - 15%	CAS number: 1477-55-0 EINECS: 216-032-5 REACH Registration number: 01-2119480150-50 CLP Classification: H302 Acute tox. 4 H314 Skin Corr. 1B H317 Skin Sens. 1 H332 Acute tox. 4 H412 Aquatic Chronic 3

2,4,6-Tris(dimethyl amino methyl)phenol	5% - 15%	CAS number: 90-72-2 EINECS: 202-013-9 REACH Registration number: 01-2119560597-27 CLP Classification: H314 Skin Corr. 1B H317 Skin Sens. 1 H412 Aquatic Chronic 3
Phenol	< 5%	CAS number: 108-95-2 EINECS: 203-632-7 REACH Registration number: 01-2119471329-32 CLP Classification: H301 Acute tox. 3 H311 Acute tox. 3 H314 Skin Corr. 1B H331 Acute tox. 3 H341 Muta. 2 H373 STOT RE 2

For the full text of the H & R phrases mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact:	remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital.
Eye contact:	first prolonged rinsing with water (contact lenses to be removed if this is easily done) then take to physician.
Ingestion:	rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation:	let sit upright, fresh air, rest and take to hospital.

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

Skin contact:	caustic, redness, pain, serious burns
Eye contact:	caustic, redness, bad looking, pain
Ingestion:	caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach
Inhalation:	headache, dizziness, nausea, drowsiness, unconsciousness

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

none

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO₂, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

none

5.3 Advice for fire-fighters:

Extinguishing agents to be avoided: none

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

remove by using absorbent material.

6.4 Reference to other sections:

for further information check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

For professional use only

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

Phenol 8 mg/m³

8.2 Exposure controls:

Inhalation protection:	use with sufficient exhaust ventilation. If necessary, use an air-purifying face mask in case of respiratory hazards. Use the ABEK type as protection against these troublesome levels.	
Skin protection:	handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take off the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	

Other protection:

impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.



9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	/
Boiling point/Boiling range:	205 °C — 272 °C
pH:	/
pH 1% diluted in water:	/
Vapour pressure/20°C,:	/
Vapour density:	not applicable
Relative density, 20°C:	1.070 kg/l
Appearance/20°C:	liquid
Flash point:	/
Flammability (solid, gas):	not applicable
Auto-ignition temperature:	435 °C
Upper flammability or explosive limit, (Vol %):	13.000 %
Lower flammability or explosive limit, (Vol %):	1.300 %
Explosive properties:	not applicable
Oxidising properties:	not applicable
Decomposition temperature:	/
Solubility in water:	not soluble
Partition coefficient: n-octanol/water:	not applicable
Odour:	characteristic
Odour threshold:	not applicable
Dynamic viscosity, 20°C:	400 mPa.s
Kinematic viscosity, 20°C:	374 mm ² /s
Evaporation rate (n-BuAc = 1):	0.010

9.2 Other information:

Volatile organic component (VOC):	25.00 %
Volatile organic component (VOC):	192.600 g/l

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

stable under normal conditions.

10.2 Chemical stability:

extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

none

10.4 Conditions to avoid:

protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

acids, alkalines, oxidants, reductants

10.6 Hazardous decomposition products:

doesn't decompose with normal use

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H302 Acute tox. 4:	Harmful if swallowed.
H314 Skin Corr. 1B:	Causes severe skin burns and eye damage.
H317 Skin Sens. 1:	May cause an allergic skin reaction.
H341 Muta. 2:	Suspected of causing genetic defects.

Calculated acute toxicity, ATE oral: 842.921 mg/kg

Calculated acute toxicity, ATE dermal: 1 861.828 mg/kg

Isophoronediamine	LD50 oral, rat: 500 mg/kg LD50 dermal, rabbit: 1,100 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
Benzyl alcohol	LD50 oral, rat: 500 mg/kg LD50 dermal, rabbit: 1,100 mg/kg LC50, Inhalation, rat, 4h: 11 mg/l
m-phenylenebis(methylamine)	LD50 oral, rat: 930 mg/kg LD50 dermal, rabbit: 3,100 mg/kg LC50, Inhalation, rat, 4h: 11 mg/l
2,4,6-Tris(dimethyl amino methyl)phenol	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
Phenol	LD50 oral, rat: 340 mg/kg LD50 dermal, rabbit: 660 mg/kg LC50, Inhalation, rat, 4h: 3 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

Isophoronediamine	EC50 (Algae): 12 mg/L (Scenedesmus)(72h)
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Benzyl alcohol	LC50 (Fish): 460 mg/L (72h) EC50 (Daphnia): 230 mg/L (48h) NOEC (Daphnia): 310 mg/L (72h) EC50 (Algae): 770 mg/L (72h)
m-phenylenebis(methylamine)	LC50 (Fish): 87.6 mg/L (96h) EC50 (Daphnia): 87.6 mg/L (96h) EC50 (Algae): 20.3 mg/L (72h) EC50 (soil microorganisms): > 1000 mg/L (30min)
2,4,6-Tris(dimethyl amino methyl)phenol	EC50 (Algae): 84 mg/L (72h)
Phenol	LC50 (Fish): 21.93 mg/L (14d) NOEC (Fish): 4 mg/L (14d) EC50 (Daphnia): 3.1 mg/L (48h) EC50 (Algae): 61.1 mg/L (96h)

12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK: 1
Solubility in water: not soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

2735

14.2 UN proper shipping name:

UN 2735 Amines, liquid, corrosive, n.o.s. (mixture with Isophoronediamine; m-phenylenebis(methylamine)) , 8, III, (E)

14.3 Transport hazard class(es):

Class(es): 8
Identification number of the hazard: 80

14.4 Packing group:

III

14.5 Environmental hazards:

not dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics: Risk of burns. Risk to the aquatic environment and the sewerage system.

Additional guidance:



15 SECTION 15: Regulatory information:

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

Water hazard class, WGK: 1
Volatile organic component (VOC): 25.000 %
Volatile organic component (VOC): 192.600 g/l
Composition by regulation (EC) 648/2004: none

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
BCF: Bioconcentration factor
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of chemicals
EINECS: European INventory of Existing Commercial chemical Substances
Nr.: number
PTB: persistent, toxic, bioaccumulative
TLV: Threshold Limit Value
vPvB: very persistent and very bioaccumulative substances
WGK: Water hazard class
WGK 1: slightly hazardous for water

WGK 2: hazardous for water
WGK 3: extremely hazardous for water

Legend to the R & H Phrases used in the safety data sheet:

H301 Acute tox. 3: Toxic if swallowed. **H302 Acute tox. 4:** Harmful if swallowed.
H302+H312 Acute tox. 4: Harmful if swallowed or in contact with skin. **H311 Acute tox. 3:** Toxic in contact with skin. **H314 Skin Corr. 1B:** Causes severe skin burns and eye damage. **H317 Skin Sens. 1:** May cause an allergic skin reaction. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H331 Acute tox. 3:** Toxic if inhaled.
H332 Acute tox. 4: Harmful if inhaled. **H341 Muta. 2:** Suspected of causing genetic defects.
H373 STOT RE 2: May cause damage to organs through prolonged or repeated exposure.
H412 Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

Reason of revision, changes of following items:

Section: 2.2

MSDS reference number:

ECM-106391,00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.