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

· **1.1 Product identifier**
· **Trade name: Epotec® TH 9254**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Epoxy resin hardening agent

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
CTP Advanced Materials GmbH
Stahlstrasse 60
D-65428 Rüsselsheim

Tel.: +49-6142-91850, Fax: +49-6142-918555, Email: am.de@adityabirla.com

· **Informing department:** see section 16
· **1.4 Emergency telephone number:**
Poison Control Center Mainz - 24 h - Emergency Call: +49 (0)6131 19240

GB: Regional Medicines and Poisons Information Centre 844 892 0111

AU: National Poisons Information Network (Australia-wide) 131126

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4	H302	Harmful if swallowed.
Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **Hazard pictograms**

GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
4,4'-methylenebis(cyclohexylamine)
salicylic acid
Polyoxypropylenediamine
Amines, polyethylenepoly-, tetraethylenepentamine fraction
· **Hazard statements**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

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· **Precautionary statements**

P260	Do not breathe dusts or mists.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· **Description:** Epoxy resin hardener, formulation based on aliphatic polyamines

· **Dangerous components:**

CAS: 1761-71-3 EINECS: 217-168-8 Reg.nr.: 01-2119541673-38-xxxx	4,4'-methylenebis(cyclohexylamine) STOT RE 2, H373; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1B, H317	35-60%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12-xxxx	Polyoxypropylenediamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	20-35%
CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17-xxxx 01-2119486984-17-0018	salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	2.5-10%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	2.5-10%
CAS: 90640-66-7 EINECS: 292-587-7 Index number: 612-065-00-0 Reg.nr.: 01-2119487290-37-xxxx	Amines, polyethylenepoly-, tetraethylenepentamine fraction Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H312; Skin Sens. 1, H317	2.5-10%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information** Instantly remove any clothing soiled by the product.
· **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment in case of complaints.
· **After skin contact**
Instantly wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.
· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
· **After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.
· **Information for doctor** No particular measures are known - treat according to symptoms.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **5.3 Advice for firefighters**
· **Protective equipment:** Put on breathing apparatus.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections** Clean the accident area carefully.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
The usual precautionary measures for handling chemicals must be observed.
· **Information about protection against explosions and fires:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Keep containers securely closed and dry, store frost-free.
Store only in the original container.
Provide floor trough without outlet.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:** Keep container tightly sealed.
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Additional information about design of technical systems:** No further data; see section 7.

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· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**		
1761-71-3 4,4'-methylenebis(cyclohexylamine)		
Dermal	DNEL - worker	0.1 mg/kg / bw/d
Inhalative	DNEL - worker	1 mg/m³
9046-10-0 Polyoxypropylenediamine		
Dermal	DNEL - worker	2.5 mg/kg / bw/d
Inhalative	DNEL - worker	1.36 mg/m³
69-72-7 salicylic acid		
Dermal	DNEL - worker	2 mg/kg / bw/d
100-51-6 Benzyl alcohol		
Dermal	DNEL - worker	8 mg/kg / bw/d (langfristig)
Inhalative	DNEL - worker	22 mg/m³ (langfristig)
90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction		
Dermal	DNEL - worker	0.74 mg/kg / bw/d
Inhalative	DNEL - worker	1.29 mg/m³

· **PNECs**	
1761-71-3 4,4'-methylenebis(cyclohexylamine)	
PNEC (predicted no effect concentration)	0.08 mg/l (Fresh water) 0.008 mg/l (Seawater)
9046-10-0 Polyoxypropylenediamine	
PNEC (predicted no effect concentration)	0.015 mg/l (Fresh water) 0.0142 mg/l (Seawater)
69-72-7 salicylic acid	
PNEC (predicted no effect concentration)	0.2 mg/l (Fresh water) 0.02 mg/l (Seawater)
100-51-6 Benzyl alcohol	
PNEC (predicted no effect concentration)	1 mg/l (Fresh water) 0.1 mg/l (Seawater)
90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction	
PNEC (predicted no effect concentration)	0.0068 mg/l (Fresh water) 0.00068 mg/l (Seawater)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment**
· **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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· **Recommended filter device for short term use:**

Combination filter A-P2

· **Protection of hands:**

Plastic gloves

Only use chemical protective gloves in accordance with EN ISO 374-1.
To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.
Check the permeability prior to each anewed use of the glove.
Preventive skin protection by use of skin-protecting agents is recommended.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ≥ 0.5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level ≤ 480 min

· **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Nitrile rubber (disposable glove)

· **As protection from splashes gloves made of the following materials are suitable:**
Nitrile rubber (disposable glove)

· **Not suitable are gloves made of the following materials:**
Strong gloves
Leather gloves

· **Eye protection:**
Safety glasses
Safety glasses recommended during refilling.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Fluid
Colour:	Yellowish
· **Odour:**	Amine-like
· **Odour threshold:**	Not determined.

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· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	> 200 °C
· **Flash point:**	> 100 °C
· **Inflammability (solid, gaseous)**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Self-inflammability:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive.
· **Critical values for explosion:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure at 20 °C:**	<0.1 hPa
· **Density at 25 °C**	1.0 g/cm³ (ISO 2811-2)
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
dynamic at 25 °C:	155 mPas (ISO 3219)
kinematic:	Not determined.
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** strong oxidizing agents
· **10.6 Hazardous decomposition products:**
in the event of fire:
Poisonous gases/vapours
Corrosive gases/vapours

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if swallowed.

· **LD/LC50 values that are relevant for classification:**		
1761-71-3 4,4'-methylenebis(cyclohexylamine)		
Oral	LD50	600 mg/kg (mou) 380 mg/kg (Rat)

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Dermal	LD50	2,100 mg/kg (rabbit)
9046-10-0 Polyoxypropylenediamine		
Oral	LD50	2,885 mg/kg (Rat)
Dermal	LD50	2,980 mg/kg (rabbit)
69-72-7 salicylic acid		
Oral	LD50	891 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
100-51-6 Benzyl alcohol		
Oral	LD50	1,040 mg/kg (mou)
		1,620 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction		
Oral	LD50	1,716 mg/kg (Rat)
Dermal	LD50	1,260 mg/kg (rabbit)

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Causes severe skin burns and eye damage.
· ***Serious eye damage/irritation***
Causes serious eye damage.
· ***Respiratory or skin sensitisation***
May cause an allergic skin reaction.
· ***Additional toxicological information:***
· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity***
Suspected of damaging the unborn child.
· ***STOT-single exposure*** Based on available data, the classification criteria are not met.
· ***STOT-repeated exposure***
May cause damage to organs through prolonged or repeated exposure.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
1761-71-3 4,4'-methylenebis(cyclohexylamine)	
Bakterientoxizität (Bacteria toxicity)	80 mg/l (Pseudomonas putida) (EC50(0,5h))
Daphnia toxicity	6.84 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algal toxicity	142 mg/l (Scenedesmus subspicatus) (EC50(72h))
Fish toxicity	67.8 mg/l (Leuciscus idus) (LC50(96h))
9046-10-0 Polyoxypropylenediamine	
Bakterientoxizität (Bacteria toxicity) (static)	380 mg/l (Belebtschlamm (activated sludge)) (EC20(3h))
Daphnia toxicity	80 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algal toxicity	15 mg/l (Pseudokirchnerilla subcapitata) (EC50(72h))
Fish toxicity	>15 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))
69-72-7 salicylic acid	
Daphnia toxicity	870 mg/l (Daphnia magna (Wasserfloh)) (EC50 (48h))

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Algal toxicity	>100 mg/l (Desmodesmus subspicatus) (EC50 (72h))
Fish toxicity	1,380 mg/l (Pimephales promelas) (LC50 (96h))
100-51-6 Benzyl alcohol	
Bacterial toxicity	>658 mg/l (Pseudomonas putida) (EC10(16h))
	390 mg/l (Pseudomonas putida) (EC50(24h))
Daphnia toxicity	230 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algal toxicity	770 mg/l (Pseudokirchnerilla subcapitata) (IC50(72h))
Fish toxicity	460 mg/l (Pimephales promelas) (LC50(96h))
	645 mg/l (Goldorfe (orfe)) (LC50(96h))
90640-66-7 Amines, polyethylenepoly-, tetraethylenepentamine fraction	
Daphnia toxicity	24.1 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algal toxicity	6.8 mg/l (Pseudokirchnerilla subcapitata) (LC50(72h))
Fish toxicity	420 mg/l (Fisch (fish)) (LC50(96h))

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Ecotoxical effects:** Not determined
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Harmful to aquatic organisms
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
For disposal,local regulations issued by the authorities must be observed.Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR/RID/ADN, IMDG, IATA**	UN2735
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN**	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine))
· **IMDG, IATA**	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine))

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· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**

· **Class**	8 (C7) Corrosive substances.
· **Label**	8

· **IMDG, IATA**

· **Class**	8 Corrosive substances.
· **Label**	8
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Corrosive substances.
· **Kemler Number:**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG18) Alkalis
· **Stowage Category**	A
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR/RID/ADN**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-METHYLENEBIS(CYCLOHEXYLAMINE)), 8, II

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Relevant phrases**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing data specification sheet:**
CTP Advanced Materials GmbH
Stahlstrasse 60
D-65428 Rüsselsheim
· **Contact:** SDB-am.de@adityabirla.com
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3