Safety Data Sheet

according to 29 CFR 1910.1200(g)

EP 800, Comp. A

1. Identification

Product identifier

EP 800, Comp. A

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

Uses advised against

no restriction

Details of the supplier of the safety data sheet

Company name:	Chemofast USA Inc.
Street:	1 Gunnebo Drive
Place:	USA-72086 Lonoke
Telephone:	+1 501 676 7195
Internet:	www.chemofast-usa.com
Responsible Department:	sdb@chemofast.de

Emergency phone number: +49 (0)551-19240 (GIZ-Nord, German und English 24/7)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Reproductive toxicity: Repr. 1B

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:

Hazard statements

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage
May damage fertility or the unborn child

Precautionary statements

Avoid breathing vapors.
Wash hands thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing and eye protection/face protection.
If skin irritation or rash occurs: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not otherwise classified

People who are allergic to epoxide should avoid the use of the product.
Use only outdoors or in a well-ventilated area.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	40 - < 50 %
9003-36-5	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol	25 - < 35 %
2425-79-8	1,4-Bis(2,3-epoxypropoxy)butane	10 - < 15 %

Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Water spray jet
Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Pyrolysis products, toxic
Carbon monoxide

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.

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

Additional information

Supress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Other information

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand
Treat the recovered material as prescribed in the section on waste disposal.
Retain contaminated washing water and dispose it.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.
Wear personal protection equipment (refer to section 8).
Avoid contact with skin, eyes and clothes.
When using do not eat, drink or smoke.

Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.
Wash hands thoroughly after handling. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Store in a place accessible by authorized persons only.
Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidizing agent, strong
Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

storage temperature: 5 - 35°C

8. Exposure controls/personal protection

Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection. Wear safety goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134).

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	solid (pasty)
Color:	light beige
Odor:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Non-flammable.
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:	not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:	not applicable
Vapor pressure:	No data available
Density (at 20 °C):	1,17 g/cm³
Relative vapour density:	not applicable
Particle characteristics:	No data available

Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid: not applicable

Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate: No data available

Solid content: No data available

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Violent reaction with: Oxidizing agent, strong

Conditions to avoid

Heat. Keep cool. Protect from sunlight.

Incompatible materials

Keep away from: Oxidizing agent

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	oral	LD50 mg/kg	15000	Rat		
	dermal	LD50 mg/kg	23000	Rabbit		
9003-36-5	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol					
	oral	LD50 mg/kg	> 2000	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
2425-79-8	1,4-Bis(2,3-epoxypropoxy)butane					
	oral	LD50 mg/kg	1163	Rat		
	dermal	LD50 mg/kg	>2150	Rat		
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Causes serious eye damage

Sensitizing effects

May cause an allergic skin reaction (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol; 1,4-Bis(2,3-epoxypropoxy)butane)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child (1,4-Bis(2,3-epoxypropoxy)butane)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): Bisphenol A diglycidyl ether (Araldite) (CAS 1675-54-3) is listed in group 3.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

CAS No	Components						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane						
	Acute fish toxicity	LC50	2,0 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	11 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	Daphnia magna (Big water flea)		
9003-36-5	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol						
	Acute fish toxicity	LC50 mg/l	2,54	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50	1,8 mg/l	96 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 mg/l	2,55	48 h	Daphnia magna (Big water flea)		
2425-79-8	1,4-Bis(2,3-epoxypropoxy)butane						
	Acute fish toxicity	LC50 mg/l	19,8	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50	160 mg/l	72 h	Pseudokirchneriella subcapitata		

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
9003-36-5	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol	3,3

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number: UN 3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)
Transport hazard class(es): 9
Packing group: III
Hazard label: 9

Marine transport (IMDG)

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)
Transport hazard class(es): 9
Packing group: III
Hazard label: 9

Special Provisions: 274, 335, 966, 967, 969
Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-F

Other applicable information (marine transport)

No dangerous goods in packaging until 5kg according 2.10.2.7 IMDG Code

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)
Transport hazard class(es): 9
Packing group: III
Hazard label: 9

Special Provisions: A97 A158 A179 A197
Limited quantity Passenger: 30 kg G
Passenger LQ: Y956
Excepted quantity: E1
IATA-packing instructions - Passenger: 956
IATA-max. quantity - Passenger: 400 kg
IATA-packing instructions - Cargo: 956
IATA-max. quantity - Cargo: 400 kg

Other applicable information (air transport)

No dangerous goods in packaging until 5 kg according A197 IATA-DGA

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Special precautions for user

No information available.

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

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All ingredients of this mixture are included on the TSCA Inventory.

National regulatory information

SARA Section 311/312 Hazards:

2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3): Immediate (acute) health hazard

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol (9003-36-5): Immediate (acute) health hazard

1,4-Bis(2,3-epoxypropoxy)butane (2425-79-8): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Identification System (HMIS)

Health:	2
Physical Hazard:	1
Personal Protection:	-

NFPA Hazard Ratings

Health:	2
Flammability:	
Reactivity:	1
Unique Hazard:	

Revision date:	01/29/2025
Revision No:	1,02

Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF: Bioconcentration factor
CAS: Chemical Abstracts Service
CLP: Classification, Labeling and Packaging
DMEL: Derived Minimal Effect level
DNEL: Derived No Effect Level
EC50: Effective concentration, 50%
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
ICAO: International Civil Aviation Organization
IC50: Inhibitory concentration, 50%
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%
NOEC: No Observed Effect Concentration
OECD: Oragnisation for Economic Co-operation and Development
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
VOC: Volatile organic compound

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Safety Data Sheet

according to 29 CFR 1910.1200(g)

EP 800, Comp. B

1. Identification

Product identifier

EP 800, Comp. B

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

compound mortar B-component (hardener)

Uses advised against

no restriction

Details of the supplier of the safety data sheet

Company name:	Chemofast USA Inc.
Street:	1 Gunnebo Drive
Place:	USA-72086 Lonoke
Telephone:	+1 501 676 7195
Internet:	www.chemofast-usa.com
Responsible Department:	sdb@chemofast.de
Emergency phone number:	+49 (0)551-19240 (GIZ-Nord, German und English 24/7)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Skin corrosion/irritation: Skin Corr. 1A
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:

Hazard statements

Causes severe skin burns and eye damage
May cause an allergic skin reaction

Precautionary statements

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing and eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.

Hazards not otherwise classified

Contains Amines. May produce an allergic reaction.
Use only outdoors or in a well-ventilated area.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	1 - < 10 %
1477-55-0	m-Phenylenebis(methylamine)	1 - < 8 %
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	1 - < 10 %
104-15-4	p-Toluenesulphonic acid	1 - < 5 %
112-24-3	3,6-Diazaoctanethylenediamine	< 1 %

Further Information

The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam
Extinguishing powder
Water spray jet
Carbon dioxide (CO_2)

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Pyrolysis products, toxic
Carbon monoxide

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Supress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Other information

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand
Treat the recovered material as prescribed in the section on waste disposal.
Retain contaminated washing water and dispose it.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.
Wear personal protection equipment (refer to section 8).
Avoid contact with skin, eyes and clothes.
When using do not eat, drink or smoke.

Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.
Wash hands thoroughly after handling. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Store in a place accessible by authorized persons only.
Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidizing agent, strong, Organic peroxides
Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

Keep container tightly closed in a cool place.
storage temperature: 5 - 35°C

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
1344-28-1	alpha-Alumina Respirable fraction	-	5		TWA (8 h)	PEL
1477-55-0	m-Xylene-alpha, alpha'-diamine	-	C 0.1		Ceiling	REL

Additional advice on limit values

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

Exposure controls

Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Hand protection

Wear chemical resistant protective gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Observe OSHA regulations for respirator use (29 CFR 1910.134).

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	solid (pasty)
Color:	gray/red
Odor:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Non-flammable.
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:	not applicable

Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:	not applicable
Vapor pressure:	No data available
Density (at 20 °C):	1,80 g/cm³
Relative vapour density:	not applicable
Particle characteristics:	No data available

Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:	not applicable

Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate:	No data available
Solid content:	No data available

10. Stability and reactivity

Reactivity

see section 10.3

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Violent reaction with: Oxidising agent

Conditions to avoid

see section 7.2

Incompatible materials

Oxidizing agent, strong

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine					
	oral	LD50 mg/kg	910	Rat		
1477-55-0	m-Phenylenebis(methylamine)					
	oral	LD50 mg/kg	930	Rat		OECD 401
	dermal	LD50 mg/kg	> 3100	Rabbit		OECD 402
	inhalation (4 h) dust/mist	LC50	1,34 mg/l	Rat		OECD 403
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol					
	oral	LD50 mg/kg	2169	Rat		
	dermal	LD50 mg/kg	> 1	Rat		
104-15-4	p-Toluenesulphonic acid					
	inhalation vapour	LC50 mg/l	50 - 100	Rat		
112-24-3	3,6-Diazaoctanethylenediamine					
	oral	LD50 mg/kg	2500	Rat		
	dermal	LD50 mg/kg	805	Rabbit	ECHA	

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage
Serious eye damage/eye irritation: Causes serious eye damage

Sensitizing effects

May cause an allergic skin reaction (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine); 3,6-Diazaoctanethylenediamine)

Carcinogenic/mutagenic/toxic effects 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: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): No ingredient of this mixture is listed.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:	UN 3259
Proper shipping name:	AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4) -Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))
Transport hazard class(es):	8
Packing group:	II
Hazard label:	8

Marine transport (IMDG)

UN number or ID number:	UN 3259
UN proper shipping name:	AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4) -Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))
Transport hazard class(es):	8
Packing group:	II
Hazard label:	8

Special Provisions:	274
Limited quantity:	1 kg
Excepted quantity:	E2
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:	UN 3259
UN proper shipping name:	AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4) -Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))
Transport hazard class(es):	8

Packing group:	II
Hazard label:	8

Special Provisions:	A3 A803	
Limited quantity Passenger:	5 kg	
Passenger LQ:	Y844	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		859
IATA-max. quantity - Passenger:		15 kg
IATA-packing instructions - Cargo:		863
IATA-max. quantity - Cargo:		50 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No information available.

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

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All ingredients of this mixture are included on the TSCA Inventory.

National regulatory information

SARA Section 311/312 Hazards:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine (25513-64-8): Immediate (acute) health hazard
m-Phenylenebis(methylamine) (1477-55-0): Immediate (acute) health hazard
2,4,6-Tris(dimethylaminomethyl)phenol (90-72-2): Immediate (acute) health hazard
p-Toluenesulphonic acid (104-15-4): Immediate (acute) health hazard
3,6-Diazaoctanethylenediamine (112-24-3): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Aluminum oxide (fibrous forms) (1344-28-1): De minimis limit = 1.0 %, Reportable threshold = Standard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information

This mixture contains quartz filler which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

16. Other information

Hazardous Materials Identification System (HMIS)

Health:	2
Physical Hazard:	1
Personal Protection:	-

NFPA Hazard Ratings

Health:	2
Flammability:	
Reactivity:	1
Unique Hazard:	
Revision date:	01/29/2025
Revision No:	1,02

Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF: Bioconcentration factor
CAS: Chemical Abstracts Service
CLP: Classification, Labeling and Packaging
DMEL: Derived Minimal Effect level
DNEL: Derived No Effect Level
EC50: Effective concentration, 50%
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
ICAO: International Civil Aviation Organization
IC50: Inhibitory concentration, 50%
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
NOEC: No Observed Effect Concentration
OECD: Oragnisation for Economic Co-operation and Development
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
VOC: Volatile organic compound

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)