

according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 1 of 9

1. Identification

Product identifier

PE 1000+, 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: DEWALT Industrial Tool Co.
Street: 701 East Joppa Road
Place: USA Towson, MD 21286

Telephone: +1 800 524-3244 Telefax:+1 877 871-1965

Emergency phone number: CHEMTREC USA: +1 800 424 9300 (24/7)

CHEMTREC International: +1 703 527 3887 (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 Irrit. 2A Respiratory or skin sensitization: Skin Sens. 1

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

Precautionary statements

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified

People who are allergic to epoxide should avoid the use of the product.

3. Composition/information on ingredients



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 2 of 9

Mixtures

Hazardous components

CAS No	Components	Quantity
1675-54-3	2,2-Bis(4-glycidyloxyphenyl)propane	25 - 50 %
9003-36-5	Bisphenol-F-epichlorohydrin resin MW <= 700	10 - 20 %
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane	10 - 20 %
	Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany)	1 - 10 %

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.



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 3 of 9

Additional information

Supress gases/vapours/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

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

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.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

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: Oxidising agent, strong

Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

storage temperature: 41 °F - 95 °F

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
14808-60-7	Silica, crystalline (as respirable dust)	-	0.05		TWA (8 h)	REL
14808-60-7	Silica, crystalline quartz, respirable dust	(Z-3)	(Z-3)		TWA (8 h)	PEL

Additional advice on limit values

This mixture includes quartz (silica) 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 controls



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 4 of 9







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.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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

In case of inadequate ventilation wear respiratory protection. Should a respirator be needed, follow OSHA regulation for respirator use (29 CFR 1910.134). Wear an air-purifying NIOSH-certified (or equivalent) respirator (with a high efficiency particulate filter) as needed.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Paste Color: light beige

pH-Value: not determined

Changes in the physical state

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

not determined
not determined
not applicable

Flammability

Solid: not determined Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapor pressure: not determined

Density (at 20 °C): 1,49 g/cm³



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 5 of 9

Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapor density: not determined

Evaporation rate: not determined

Other information

Solid content: not determined

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: Oxidising agent, strong

Conditions to avoid

none/none

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.

Print date: 20.03.2020



Safety Data Sheet

according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 6 of 9

CAS No	Components						
	Exposure route	Dose		Species	Source	Method	
1675-54-3	2,2-Bis(4-glycidyloxyphenyl)propane						
	oral	LD50 mg/kg	11400	Rat			
9003-36-5	Bisphenol-F-epichlorohydrin resin MW <= 700						
	oral	LD50 mg/kg	> 2000	Rat			
	dermal	LD50 mg/kg	> 2000	Rat			
16096-31-4	4 1,6-Bis(2,3-epoxypropoxy)hexane						
	oral	LD50 mg/kg	2190	Rat	OECD 401		
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402		
	inhalation (4 h) vapour	LC50	0,035 mg/l	Rat			
	Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany)						
	oral	LD50 mg/kg	20700	Mouse			
	dermal	LD50 mg/kg	2000	Rabbit			

Irritation and corrosivity

Causes skin irritation

Causes serious eye irritation

Sensitizing effects

May cause an allergic skin reaction (2,2-Bis(4-glycidyloxyphenyl)propane; Bisphenol-F-epichlorohydrin resin MW <= 700; 1,6-Bis(2,3-epoxypropoxy)hexane)

Carcinogenic/mutagenic/toxic effects for reproduction

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. Silica

dust, crystalline, in the form of quartz or cristobalite (CAS 14808-60-7) is listed in

group 1. Silica dust, crystalline, in the form of quartz or cristobalite (CAS

14808-60-7) is listed in group 1.

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 organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 7 of 9

The product has not been tested.

Mobility in soil

The product has not been tested.

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

Advice on disposal

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

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number: UN 3077

<u>Proper shipping name:</u> Environmentally hazardous substances, solid, n.o.s. (Bisphenol-F-Epoxy

resin)

Transport hazard class(es): 9

Packing group:

Hazard label: 9



Limited quantity: 5 kg

Marine transport (IMDG)

UN number: UN 3077

<u>UN proper shipping name:</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Bisphenol-F-Epoxy resin)

Transport hazard class(es):9Packing group:IIIHazard 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 3077



UN proper shipping name:

Safety Data Sheet

according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 8 of 9

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol-F-Epoxy resin)

Transport hazard class(es):9Packing group:IIIHazard 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 5kg 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

RA Section 311/312 Hazards:

2,2-Bis(4-glycidyloxyphenyl)propane (1675-54-3): Immediate (acute) health hazard Bisphenol-F-epichlorohydrin resin MW <= 700 (9003-36-5): Immediate (acute) health hazard 1,6-Bis(2,3-epoxypropoxy)hexane (16096-31-4): Immediate (acute) health hazard Alkyl Ester (Ref.: 722 43/00/2012.0028, Germany) (-): 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.

Additional information

This mixture includes quartz (silica) which is firmly bound in the pasty component, and therefore not freely available during use, so that a risk of dust inhalation is excluded, thus the product does not cause a harm effect. Silica is listed in the Proposition 65 list.

16. Other information



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. A

Revision date: 20.03.2020 Page 9 of 9

Hazardous Materials Information Label (HMIS)

Health: 2
Physical Hazard: 1
Personal Protection: -

NFPA Hazard Ratings

Health: 2
Flammability:
Reactivity: 1
Unique Hazard: -



Changes

Revision date: 20.03.2020 Revision No: 1.08

This data sheet contains changes from the previous version in section(s): 3,14.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IARC: International Agency for Research on Cancer IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observed Effect Concentration NTP: National Toxicology Program

OECD: Oragnisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Values

TSCA: Toxic Substances Control Act

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 1 of 10

1. Identification

Product identifier

PE 1000+, 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: DEWALT Industrial Tool Co.
Street: 701 East Joppa Road
Place: USA Towson, MD 21286

Telephone: +1 800 524-3244 Telefax:+1 877 871-1965

Emergency phone number: CHEMTREC USA: +1 800 424 9300 (24/7)

CHEMTREC International: +1 703 527 3887 (24/7)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Acute toxicity: Acute Tox. 4 (oral)
Acute toxicity: Acute Tox. 4 (dermal)
Skin corrosion/irritation: Skin Corr. 1B
Respiratory or skin sensitization: Skin Sens. 1

Germ cell mutagenicity: Muta. 2 Reproductive toxicity: Repr. 1B

Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:







Hazard statements

Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage May cause an allergic skin reaction Suspected of causing genetic defects May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Precautionary statements

Obtain special instructions before use.

Avoid release to the environment.

Wear protective gloves/protective clothing/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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Print date: 20.03.2020



Safety Data Sheet

according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 2 of 10

Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified

Contains Amines. May produce an allergic reaction.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	30 - < 40 %
1950616-36-0	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	15 - < 25 %
77138-45-5	Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine	15 - < 25 %
1477-55-0	m-Phenylenebis(methylamine)	15 - < 25 %
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	5 - < 10 %
100-51-6	Benzyl alcohol	5 - < 10 %
111-40-0	Diethylenetriamine	5 - < 10 %
108-95-2	Phenol	1 - < 5 %
71074-89-0	Bis[(dimethylamino)methyl]phenol	1 - < 5 %
80-05-7	Bisphenol A	1 - < 5 %

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 polyethylene glycol, followed by plenty of water. 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

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May damage fertility.

Indication of any immediate medical attention and special treatment needed



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 3 of 10

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/vapours/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

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

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up:

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.

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.



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 4 of 10

Hints on joint storage

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

Further information on storage conditions

storage temperature: 41 °F - 95 °F

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
111-40-0	Diethylenetriamine	1	4		TWA (8 h)	REL
108-95-2	Phenol	5	19		TWA (8 h)	REL
		5	19		TWA (8 h)	PEL
		C 15.6	C 60		Ceiling	REL

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.

Protective and hygiene measures

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. Avoid contact during pregnancy/while nursing.

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

In case of inadequate ventilation wear respiratory protection. Should a respirator be needed, follow OSHA regulation for respirator use (29 CFR 1910.134). Wear an air-purifying NIOSH-certified (or equivalent) respirator (with a high efficiency particulate filter) as needed.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Paste
Color: black / red
Odor: characteristic

pH-Value: not applicable

Changes in the physical state



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 5 of 10

not determined Melting point/freezing point: Initial boiling point and boiling range: not determined Flash point: not applicable

Flammability

Solid: not determined Gas: not applicable not determined Lower explosion limits: Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined Gas: not applicable Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapor pressure: not determined Density (at 20 °C): 1,07 g/cm³ Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined Vapor density: not determined Evaporation rate: not determined

Other information

Solid content: not determined

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

Oxidising agent, strong

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 6 of 10

Harmful if swallowed Harmful in contact with skin

CAS No	Components							
	Exposure route	Dose		Species	Source	Method		
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine							
	oral	LD50 mg/kg	1030	Rat				
	dermal	ATE mg/kg	1100					
1477-55-0	m-Phenylenebis(methylamine)							
	oral	LD50	930 mg/kg	Rat				
	dermal	LD50 mg/kg	2000	Rabbit				
	inhalation (1 h) vapour	LC50	3,89 mg/l	Rat				
	inhalation aerosol	ATE	1,5 mg/l					
90-72-2	2,4,6-Tris(dimethylamin	omethyl)ph	enol					
	oral	ATE	500 mg/kg					
100-51-6	Benzyl alcohol							
	oral	LD50 mg/kg	1230	Rat	GESTIS			
	inhalation vapour	ATE	11 mg/l					
	inhalation aerosol	ATE	1,5 mg/l					
111-40-0	Diethylenetriamine							
	oral	LD50 mg/kg	1080	Rat				
	dermal	LD50 mg/kg	1054	Rabbit				
	inhalation vapour	ATE	0,5 mg/l					
	inhalation aerosol	ATE	0,05 mg/l					
108-95-2	Phenol							
	oral	LD50	317 mg/kg	Rat				
	dermal	LD50	630 mg/kg	Rabbit				
	inhalation vapour	ATE	3 mg/l					
	inhalation aerosol	ATE	0,5 mg/l					
71074-89-0	Bis[(dimethylamino)methyl]phenol							
	oral	ATE	500 mg/kg					
80-05-7	Bisphenol A							
	oral	LD50 mg/kg	3250	Rat				
	dermal	LD50 mg/kg	3000	Rabbit				

Irritation and corrosivity

Causes severe skin burns and eye damage



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 7 of 10

Sensitizing effects

May cause an allergic skin reaction (3-Aminomethyl-3,5,5-trimethylcyclohexylamine; Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine); Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine; m-Phenylenebis(methylamine); Diethylenetriamine; Bisphenol A)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects (Phenol)

May damage fertility or the unborn child (Bisphenol A)

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

May cause damage to organs through prolonged or repeated exposure (Phenol) Carcinogenicity (IARC): Phenol (CAS 108-95-2) is listed in group 3.

Aspiration hazard

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

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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

Advice on disposal

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

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number: UN 3259

<u>Proper shipping name:</u> AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

Transport hazard class(es): 8
Packing group: II
Hazard label: 8



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 8 of 10



Limited quantity:

Marine transport (IMDG)

UN 3259

UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

Transport hazard class(es): 8
Packing group: II
Hazard label: 8



Special Provisions: 223, 274
Limited quantity: 1 kg
Excepted quantity: E2
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 3259

UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

Transport hazard class(es):8Packing group:IIHazard label:8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

5 kg

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

Warning: strongly corrosive.

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

RA Section 302 Extremely hazardous substances:

Phenol (108-95-2): Reportable quantity = 1,000 lbs., Threshold planning quantity = 500/10,000 lbs.



according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 9 of 10

RA Section 304 CERCLA:

Phenol (108-95-2): Reportable quantity = 1,000 (454) lbs. (kg)

RA Section 311/312 Hazards:

3-Aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2): Immediate (acute) health hazard

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (1950616-36-0):

Immediate (acute) health hazard

Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine (77138-45-5):

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

Benzyl alcohol (100-51-6): Immediate (acute) health hazard

Diethylenetriamine (111-40-0): Immediate (acute) health hazard

Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) health hazard

Bis[(dimethylamino)methyl]phenol (71074-89-0): Immediate (acute) health hazard

4,4'-Isopropylidenediphenol (80-05-7): Immediate (acute) health hazard

RA Section 313 Toxic release inventory:

Phenol (108-95-2): De minimis limit = 1.0 %, Reportable threshold = Standard

4,4'-Isopropylidenediphenol (80-05-7): De minimis limit = 1.0 %, Reportable threshold = Standard

an Air Act Section 112(b):

Phenol (108-95-2)

State Regulations

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

WARNING: This product can expose you to chemicals including Bisphenol A (BPA) (reproductive), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Additional information

For more information go to www.P65Warnings.ca.gov.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 2
Physical Hazard: 1
Personal Protection: -

NFPA Hazard Ratings

Health: 2
Flammability: 1
Unique Hazard: -

Changes

Revision date: 19.03.2020 Revision No: 1.05

This data sheet contains changes from the previous version in section(s): 3.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IARC: International Agency for Research on Cancer IMDG: International Maritime Code for Dangerous Goods







according to 29 CFR 1910.1200(g)

PE 1000+, Comp. B

Revision date: 20.03.2020 Page 10 of 10

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observed Effect Concentration

NTP: National Toxicology Program

OECD: Oragnisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Values

TSCA: Toxic Substances Control Act

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)