



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

**PE 1000+, Comp. A**

Revision date: 20.03.2020

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## 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

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**Mixtures****Hazardous components**

CAS No	Components	Quantity
1675-54-3	2,2-Bis(4-glycidyoxyphenyl)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 (CO<sub>2</sub>)**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.



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#### Additional information

Suppress 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/m <sup>3</sup>	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

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#### 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
<b>Changes in the physical state</b>		
Melting point/freezing point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		not applicable
<b>Flammability</b>		
Solid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
<b>Auto-ignition temperature</b>		
Solid:		not determined
Gas:		not applicable
Decomposition temperature:		not determined
<b>Oxidizing properties</b>		
Not oxidising.		
Vapor pressure:		not determined
Density (at 20 °C):		1,49 g/cm <sup>3</sup>

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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.

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

**Irritation and corrosivity**

- Causes skin irritation
- Causes serious eye irritation

**Sensitizing effects**

May cause an allergic skin reaction (2,2-Bis(4-glycidyoxyphenyl)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**

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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

**Proper shipping name:**

Environmentally hazardous substances, solid, n.o.s. (Bisphenol-F-Epoxy resin)

**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:



Limited quantity:

5 kg

**Marine transport (IMDG)****UN number:**

UN 3077

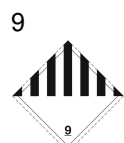
**UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Bisphenol-F-Epoxy resin)**Transport hazard class(es):**

9

**Packing group:**

III

Hazard label:



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:**

UN 3077

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**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Bisphenol-F-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 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 &lt;= 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



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#### Hazardous Materials Information Label (HMIS)

Health: 2  
Physical Hazard: 1  
Personal Protection: -

#### NFPA Hazard Ratings

Health: 2  
Flammability: 1  
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: Organisation 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.)*

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## 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.



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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**



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Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Foam  
Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

#### 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

Suppress 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:  
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.

### 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.

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### 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/m <sup>3</sup>	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

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Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable
<b>Flammability</b>	
Solid:	not determined
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
<b>Auto-ignition temperature</b>	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapor pressure:	not determined
Density (at 20 °C):	1,07 g/cm <sup>3</sup>
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient:	not determined
Vapor density:	not determined
Evaporation rate:	not determined
<b><u>Other information</u></b>	
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**

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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(dimethylaminomethyl)phenol				
	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)methylphenol				
	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



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#### 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

<u>UN/ID number:</u>	UN 3259
<u>Proper shipping name:</u>	AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
<u>Transport hazard class(es):</u>	8
<u>Packing group:</u>	II
Hazard label:	8



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Limited quantity:

1kg

**Marine transport (IMDG)****UN number:**

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):**

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**

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.

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**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](http://www.P65Warnings.ca.gov).

**Additional information**For more information go to [www.P65Warnings.ca.gov](http://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: -

Reactivity: 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



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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: Organisation 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.

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