

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**PURE 110+, Comp. A**

Revision date: 01/30/2025

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**1. Identification****Product identifier**

PURE 110+, 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 Corr. 1C

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 severe skin burns and eye damage

May cause an allergic skin reaction

May damage fertility or the unborn child

**Precautionary statements**

Obtain special instructions before use.

Do not breathe vapors.

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.

Wash contaminated clothing before reuse.

Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

**Hazards not otherwise classified**

The product is environmentally hazardous. Toxic to aquatic life with long lasting effects.

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**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	10 - 30 %
9003-36-5	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol	25 - 50 %
30499-70-8	1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane	1 - 20 %
28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	< 20 %

**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. Change contaminated, saturated clothing.

**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**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

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.  
May damage fertility or the unborn child.

**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**



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

#### Additional information

Suppress 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

Provide adequate ventilation. Do not breathe gas/fume/vapor/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

#### For 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.

#### Advice on general occupational hygiene

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.

### 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 use for products which come into contact with the food stuffs.  
Store in a well-ventilated place. Keep cool.

#### Further information on storage conditions

STORAGE: cool dry location, out of direct sunlight at 41 °F - 86 °F

## 8. Exposure controls/personal protection

### Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

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### 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

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:	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:	not determined
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 determined
Vapor pressure:	No data available
Density (at 20 °C):	1,35 g/cm <sup>3</sup>
Relative vapour density:	not applicable
Particle characteristics:	No data available

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**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**

No known hazardous reactions.

**Conditions to avoid**

Heat. Keep cool. Protect from sunlight.

**Incompatible materials**

No information available.

**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) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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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		
30499-70-8	1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chlorormethyl)oxirane					
	oral	LD50 mg/kg	> 2000	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		

**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'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol; 1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chlorormethyl)oxirane)

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage fertility or the unborn child (1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chlorormethyl)oxirane)

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.

**Information on other hazards****Other information**

No information available.

**12. Ecological information****Ecotoxicity**

Toxic to aquatic life with long lasting effects.

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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 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	11 mg/l	72 h		
	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	2,54 mg/l	96 h	Danio rerio (zebrafish)	
	Acute algae toxicity	ErC50	1,8 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	2,55 mg/l	48 h	Daphnia magna (Big water flea)	

**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**

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****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 1759

**Proper shipping name:**

CORROSIVE SOLID, N.O.S. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane)

**Transport hazard class(es):**

8

**Packing group:**

III

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Hazard label:

8



### Marine transport (IMDG)

**UN number or ID number:**

UN 1759

**UN proper shipping name:**

CORROSIVE SOLID, N.O.S. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane)

**Transport hazard class(es):**

8

**Packing group:**

III

Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 kg

Excepted quantity:

E1

EmS:

F-A, S-B

### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:**

UN 1759

**UN proper shipping name:**

CORROSIVE SOLID, N.O.S. (1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane)

**Transport hazard class(es):**

8

**Packing group:**

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y845

Excepted quantity:

E1

IATA-packing instructions - Passenger:

860

IATA-max. quantity - Passenger:

25 kg

IATA-packing instructions - Cargo:

864

IATA-max. quantity - Cargo:

100 kg

### 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



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**National Inventory TSCA**

All chemical substances in this material are included on or exempted from listing 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

1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane (30499-70-8): 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:	3
Flammability:	1
Physical Hazard:	1
Personal Protection:	X

**NFPA Hazard Ratings**

Health:	3
Flammability:	1
Reactivity:	1
Unique Hazard:	-
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**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

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



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#### 1. Identification

##### Product identifier

PURE 110+, 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)

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitization: Skin Sens. 1

Germ cell mutagenicity: Muta. 2

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

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of causing genetic defects

May cause damage to organs through prolonged or repeated exposure

##### Precautionary statements

Do not breathe vapors.

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.

Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

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**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
1950616-36-0	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	20 - 30 %
1477-55-0	m-Phenylenebis(methylamine)	5 - 15 %
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	1 - 5 %
100-51-6	Benzyl alcohol	1 - 5 %
108-95-2	Phenol	3 - 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! Remove affected person from the danger area and lay down.  
Change contaminated, saturated clothing.

**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**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

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 cause damage to organs through prolonged or repeated exposure.

**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>)

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**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**

Suppress 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**Provide adequate ventilation.  
Do not breathe gas/fume/vapor/spray.  
Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.  
Special danger of slipping by leaking/spilling product.**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For 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.**Advice on general occupational hygiene**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.**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 use for products which come into contact with the food stuffs.

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Store in a well-ventilated place. Keep cool.

**Further information on storage conditions**

STORAGE: cool dry location, out of direct sunlight at 41 °F - 86 °F

### 8. Exposure controls/personal protection

**Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
1477-55-0	m-Xylene-alpha, alpha'-diamine	-	C 0.1		Ceiling	REL
108-95-2	Phenol	5	19		TWA (8 h)	PEL
		5	19		TWA (8 h)	REL
		C 15.6	C 60		15 min	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.

**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**

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:	solid (pasty)	
Color:	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:		No data available
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable

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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):	1,87 g/cm <sup>3</sup>
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 determined

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**

Harmful if swallowed

**ATEmix calculated**

ATE (oral) 1352 mg/kg; ATE (dermal) &gt; 5000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
1477-55-0	m-Phenylenebis(methylamine)				
	oral	LD50 930 mg/kg	Rat		OECD 401
	dermal	LD50 > 3100 mg/kg	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 2169 mg/kg	Rat		OECD 401
100-51-6	Benzyl alcohol				
	oral	LD50 1230 mg/kg	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
108-95-2	Phenol				
	oral	LD50 650 mg/kg	Rat		OECD 401
	dermal	LD50 630 mg/kg	Rabbit		
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	LC50 0,9 mg/l	8 h Rat		

**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 (Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine); m-Phenylenebis(methylamine))

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing genetic defects (Phenol)

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**

May cause damage to organs through prolonged or repeated exposure

Carcinogenicity (IARC): Phenol (CAS 108-95-2) is listed in group 3.

**Aspiration hazard**

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

**Information on other hazards****Other information**

No information available.

**12. Ecological information****Ecotoxicity**

The product is not: Ecotoxic.

**Persistence and degradability**



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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**

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****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 3259

**Proper shipping name:**

AMINES, SOLID, CORROSIVE, N.O.S. (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. (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. (m-Phenylenebis(methylamine))

**Transport hazard class(es):**

8

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**Packing group:**

Hazard label:

II

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**

SARA Section 302 Extremely hazardous substances:

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

SARA Section 304 CERCLA:

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

SARA Section 311/312 Hazards:

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

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

SARA Section 313 Toxic release inventory:

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

Clean 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)**

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: 3

Flammability: 1

Physical Hazard: 1

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Personal Protection: X

**NFPA Hazard Ratings**

Health: 3

Flammability: 1

Reactivity: 1

Unique Hazard: -

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