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
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 in accordance with local/regional/national/international regulation.

Hazards not otherwise classified
The product is environmentally hazardous. Toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients
Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Bisphenol-F-epichlorohydrin resin MW &lt;= 700</td>
<td>25 - 50 %</td>
</tr>
<tr>
<td>1675-54-3</td>
<td>2,2-Bis(4-glycidyloxyphenyl)propane</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>28064-14-4</td>
<td>Phenol, polymer with formaldehyde, glycidyl ether</td>
<td>&lt; 20 %</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chlorormethyl)oxirane</td>
<td>1 - 20 %</td>
</tr>
</tbody>
</table>

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 (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.
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 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

Exposure limits

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

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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>light beige</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
<tr>
<td>Not oxidising</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density</td>
<td>not determined</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Bisphenol-F-epichlorohydrin resin MW &lt;= 700</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>1675-54-3</td>
<td>2,2-Bis(4-glycidyloxyphenyl)propane</td>
<td>oral</td>
<td>LD50</td>
<td>11400</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>30499-70-8</td>
<td>1,3-Propanediol, 2-ethyl-2( hydroxymethyl)-, polymer with (chlorormethyl)oxirane</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes severe skin burns and eye damage
12. Ecological information

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Persistence and degradability
The product has not been tested.

Bioaccumulative potential
The product has not been tested.

Mobility in soil
The product has not been tested.

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 1759
Proper shipping name: CORROSIVE SOLID, N.O.S. (Trimethylolpropane triglycidyl ether, Bisphenol-F-Epoxy resin)
Transport hazard class(es): 8
Packing group: III
Hazard label: 8

Limited quantity:
5 kg

Marine transport (IMDG)
UN number: UN 1759
UN proper shipping name: CORROSIVE SOLID, N.O.S. (Trimethylolpropane triglycidyl ether, Bisphenol-A/F-Epoxy resin)

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: UN 1759
UN proper shipping name: CORROSIVE SOLID, N.O.S. (Trimethylolpropane triglycidyl ether, Bisphenol-A/F-Epoxy resin)

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
National Inventory TSCA
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory

National regulatory information
RA Section 311/312 Hazards:
- Bisphenol-F-epichlorohydrin resin MW <= 700 (9003-36-5): Immediate (acute) health hazard
- 2,2-Bis(4-glycidyloxyphenyl)propane (1675-54-3): Immediate (acute) health hazard
- 1,3-Propanediol, 2-ethyl-2( hydroxymethyl)-, polymer with (chlorormethyl)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.

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

Hazardous Materials Information Label (HMIS)
Health: 3
Flammability: 1
Physical Hazard: 1
Personal Protection: X

NFPA Hazard Ratings
Health: 3
Flammability: 1
Reactivity: 1
Unique Hazard: -
Revision date: 20.03.2020
Revision No: 1,21

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.)
# Safety Data Sheet

**PURE 110+, Comp. B**

**Revision date: 20.03.2020**

## 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
- **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
- Respiratory or skin sensitization: Skin Sens. 1B
- 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:**

  ![Pictogram](image)

**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 in accordance with local/regional/national/international regulation.
3. Composition/information on ingredients

Mixture

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950616-36-0</td>
<td>Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)</td>
<td>20 - 30 %</td>
</tr>
<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>3 - 10 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Phenylenebis(methylamine)</td>
<td>5 - 15 %</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

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 (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.

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.

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

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 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
Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>5</td>
<td>19</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>19</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C 15.6</td>
<td>C 60</td>
<td></td>
<td>Ceiling</td>
<td>REL</td>
</tr>
</tbody>
</table>

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**
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**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>red</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Changes in the physical state**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Flammability**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
</tbody>
</table>
**Auto-ignition temperature**
- Solid: not determined
- Gas: not applicable
- Decomposition temperature: not determined

**Oxidizing properties**
- Not oxidising.
- Vapor pressure: not determined
- Density: not determined
- Water solubility: not determined

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
- Harmful if swallowed
Components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>3 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>0,5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Phenylenebis(methylamine)</td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (1 h) vapour</td>
<td>LC50</td>
<td>3,89 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>oral</td>
<td>ATE</td>
<td>500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>oral</td>
<td>LD50</td>
<td>Rat</td>
<td>GESTIS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
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<td>11 mg/l</td>
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</tr>
<tr>
<td></td>
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<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes severe skin burns and eye damage

Sensitizing effects
May cause an allergic skin reaction (Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine); m-Phenylenebis(methylamine); 2,4,6-Tris(dimethylaminomethyl)phenol)

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 (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
The product is not: Ecotoxic.

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

<table>
<thead>
<tr>
<th>UN/ID number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3259</td>
<td>AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Hazard label</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>

Limited quantity: 1 kg

Marine transport (IMDG)

<table>
<thead>
<tr>
<th>UN number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3259</td>
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</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>

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

Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th>UN number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3259</td>
<td>AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>II</td>
<td>8</td>
</tr>
</tbody>
</table>
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.
- RA Section 304 CERCLA:
  - Phenol (108-95-2): Reportable quantity = 1,000 (454) lbs. (kg)
- RA Section 311/312 Hazards:
  - Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) (1950616-36-0):
    - Immediate (acute) health hazard
  - Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) 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
- RA Section 313 Toxic release inventory:
  - Phenol (108-95-2): 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)
- 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
- A quartz (silica) contained, which is known to the State of California to cause cancer, is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded and the product does not cause any carcinogenic effect.

16. Other information

Hazardous Materials Information Label (HMIS)
- Health: 3
<table>
<thead>
<tr>
<th>Flammability:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Hazard:</td>
<td>1</td>
</tr>
<tr>
<td>Personal Protection:</td>
<td>X</td>
</tr>
</tbody>
</table>

**NFPA Hazard Ratings**

| Health: | 3 |
| Flammability: | 1 |
| Reactivity: | 1 |
| Unique Hazard: | - |
| Revision date: | 20.03.2020 |
| Revision No: | 1,13 |

**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.)