# Safety Data Sheet

according to 29 CFR 1910.1200(g)

<table>
<thead>
<tr>
<th>Product code: SDB0011US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date: 06.26.2017</td>
</tr>
</tbody>
</table>

## 1. Identification

**Product identifier**

PURE 50+ - 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:** Towson, MD 21286 USA
- **Telephone:** +1 800-524-3244
- **Telefax:** +1 877-871-1965
- **Emergency phone number:** CHEMTREC: 1-800-424-9300 (within Continental USA)
  
  CHEMTREC: +1 703 527-3887 (outside USA)

## 2. Hazard(s) identification

**Classification of the chemical**

29 CFR Part 1910.1200

- **Hazard categories:**
  - Skin corrosion/irritation: Skin Irrit. 2
  - Serious eye damage/eye irritation: Eye Irrit. 2A
  - Respiratory or skin sensitization: Skin Sens. 1

- **Hazard Statements:**
  - Causes serious eye irritation
  - Causes skin irritation
  - May cause an allergic skin reaction
  - Toxic to aquatic life with long lasting effects

**Label elements**

29 CFR Part 1910.1200

- **Signal word:** Warning

- **Pictograms:**

  ![Pictogram](image)

- **Hazard statements**
  - Causes serious eye irritation
  - Causes skin irritation
  - May cause an allergic skin reaction
  - Toxic to aquatic life with long lasting effects

- **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 skin irritation or rash occurs: Get medical advice/attention.
  - Dispose of contents/container to to in accordance with local/regional/national/international regulation.
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>Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight &lt;= 700)</td>
<td>25 - 50 %</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>epoxy resin (number average molecular weight &lt;= 700), reaction product: bisphenol-A-(epichlorhydrin)</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>28064-14-4</td>
<td>Phenol, Polymer mit Formaldehyde, Glycidylether</td>
<td>&lt; 20 %</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)glycidoxy, polymer with (chloromethyl)oxirane</td>
<td>1 - &lt; 20 %</td>
</tr>
</tbody>
</table>

Further Information

* This mixture includes a fine fraction of crystalline quartz. However, alveolar permeability can be ruled out as the quartz is irreversibly bound into the paste-like component and therefore not freely available. Subsequent drilling, grinding or other treatment can also not result in the free availability of this alveolar permeable quartz. Pursuant to Article 6 of CLP Regulation 1272/2008/EU classification and labelling as SLOT RE 2 is not required.

SVHC Liste (Candidate List of Substances of Very High Concern for authorization): substances are not contained or are below 0,1%.

4. First-aid measures

Description of first aid measures

General information
Take off immediately all contaminated clothing and wash it before reuse.

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

After ingestion
Rinse mouth immediately and drink plenty of water.

Most important symptoms and effects, both acute and delayed
Allergic reactions

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Extinguishing powder
Water spray jet
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/fumes/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
   Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections
   Safe handling: see section 7
   Personal protection equipment: 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 protection against fire and explosion
      No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities
   Requirements for storage rooms and vessels
      Keep container tightly closed.
      Keep only in the original container in a cool, well-ventilated place.

   Advice on storage compatibility
      Do not use for products which come into contact with the food stuffs.

Further information on storage conditions
   Storage temperature: 5-25°C (41-77 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></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline - alpha-quartz (respirable</td>
<td>-</td>
<td>0.025</td>
<td></td>
<td>TWA (8 h)</td>
<td>TLV</td>
</tr>
<tr>
<td></td>
<td>fraction)</td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
</tbody>
</table>

Exposure controls

Protective and hygiene measures
Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. 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/face protection.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
Wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Paste</th>
<th>Color:</th>
<th>light beige</th>
</tr>
</thead>
</table>

Test method
pH-Value: not determined

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point/freezing point:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<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>Solid:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas:</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower explosion limits:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper explosion limits:</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Solid:</th>
<th>not determined</th>
</tr>
</thead>
</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
none

Incompatible materials
No information available.

Hazardous decomposition products
No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight &lt;= 700)</td>
<td>oral</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td>25068-38-6</td>
<td>epoxy resin (number average molecular weight &lt;= 700), reaction product: bisphenol-A-(epichlorhydrin)</td>
<td>oral</td>
<td>LD50 11400 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Additional information on tests
This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].
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**
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**

<table>
<thead>
<tr>
<th>UN/ID number:</th>
<th>UN 3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name:</td>
<td>Environmentally hazardous substances, solid, n.o.s.</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>9</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>9</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 kg</td>
</tr>
</tbody>
</table>

**Marine transport (IMDG)**

<table>
<thead>
<tr>
<th>UN number:</th>
<th>UN 3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Bisphenol A/F Epoxy resin</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>9</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>9</td>
</tr>
</tbody>
</table>

Limited quantity: 5 kg

<table>
<thead>
<tr>
<th>Exempted quantity:</th>
<th>E1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EmS:</td>
<td>F-A, S-F</td>
</tr>
</tbody>
</table>

**Other applicable information**
No dangerous goods in packaging until 5kg according 2.10.2.7 IMDG Code.
Air transport (ICAO)

**UN number:** UN 3077

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol A/F Epoxy resin)

**Transport hazard class(es):** 9

**Packing group:** III

**Other applicable information**

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

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

not applicable

15. Regulatory information

**U.S. Regulations**

**National regulatory information**

SARA Section 311/312 Hazards:

- Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700)
- Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700)
- 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 contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Information Label (HMIS)
Safety Data Sheet

according to 29 CFR 1910.1200(g)

Revision date: 06.26.2017

Product code: SDB0011US

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Health: 2
Flammability: 1
Physical Hazard: 1
Personal Protection: X

NFPA Hazard Ratings

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

Changes

Revision date: 04.08.2016
Revision No: 1,03,0

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

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

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

according to 29 CFR 1910.1200(g)

PURE 50+ - Comp. B; PURE GP - Comp. B

Product code: SDB0012US

Revision date: 06.26.2017

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1. Identification

Product identifier
PURE 50+ - Comp. B; PURE GP - 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: Towson, MD 21286 USA
Telephone: +1 800-524-3244 Telefax: +1 877-871-1965

Emergency phone number:
CHEMTREC: 1-800-424-9300 (within Continental USA)
CHEMTREC: +1 703 527-3887 (outside USA)

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200
Hazard categories:
Skin corrosion/irritation: Skin Corr. 1B
Respiratory or skin sensitization: Skin Sens. 1
Germ cell mutagenicity: Muta. 2
Hazard Statements:
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Suspected of causing genetic defects

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
Suspected of causing genetic defects

Precautionary statements

Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
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.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to gemäß lokalen/nationalen Vorschriften der Entsorgung.

**Hazardous not otherwise classified**
This substance meets the PBT criteria of REACH, annex XIII.

### 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>57214-10-5</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 - &lt; 10 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Phenylenebis(methylamine)</td>
<td>5 -&lt; 15 %</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>1 -&lt; 5 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Quartz (&lt; 10µm)</td>
<td>2.906 %</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>*</td>
<td>1 -&lt; 3 %</td>
</tr>
</tbody>
</table>

**Further Information**

* This mixture includes a fine fraction of crystalline quartz. However, alveolar permeability can be ruled out as the quartz is irreversibly bound into the paste-like component and therefore not freely available. Subsequent drilling, grinding or other treatment can also not result in the free availability of this alveolar permeable quartz. Pursuant to Article 6 of CLP Regulation 1272/2008/EU classification and labelling as SLOT RE 2 is not required.

SVHC Liste (Candidate List of Substances of Very High Concern for authorization): substances are not contained or are below 0,1%.

### 4. First-aid measures

#### Description of first aid measures

**General information**
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**
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**
Rinse mouth immediately and drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

Allergic reactions

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

### 5. Fire-fighting measures

**Extinguishing media**
Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.
Extinguishing powder
Water spray jet

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
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.
Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

Environmental precautions
Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up
Take up mechanically.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections
Safe handling: see section 7
Personal protection equipment: 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.
Use protective skin cream before handling the product.

Advice on protection against fire and explosion
No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed.
Keep/Store only in original container.

Advice on storage compatibility
Do not use for products which come into contact with the food stuffs.
Store in a well-ventilated place. Keep cool.
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>14808-60-7</td>
<td>Silica, crystalline (as respirable dust)</td>
<td>-</td>
<td>0.05</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline - alpha-quartz (respirable</td>
<td>0.025</td>
<td></td>
<td></td>
<td>TWA (8 h)</td>
<td>TLV</td>
</tr>
<tr>
<td></td>
<td>fraction)</td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, total dust</td>
<td>-</td>
<td>(Z-3)</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
</tbody>
</table>

Biological Exposure Indices (BEI-ACGIH)

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>Determinant</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>PHENOL</td>
<td>Phenol (with hydrolysis, creatinine)</td>
<td>250 mg/g</td>
<td>urine</td>
<td>End of shift</td>
</tr>
</tbody>
</table>

Exposure controls

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. 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

Suitable eye protection: Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.
9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Pastes</td>
</tr>
<tr>
<td>Color:</td>
<td>black</td>
</tr>
<tr>
<td>Odor:</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>not applicable</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 oxidizing.</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>not determined</td>
</tr>
<tr>
<td>Density:</td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>insoluble</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
</tr>
<tr>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>not determined</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Solid content:</td>
<td>not determined</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>phenol</td>
<td>oral</td>
<td>LD50</td>
<td>317 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>630 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>3 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>0,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Phenylenebis(methylamine)</td>
<td>oral</td>
<td>LD50</td>
<td>930 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>2000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (1 h) vapour</td>
<td>LC50</td>
<td>3,89 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>oral</td>
<td>LD50</td>
<td>2169 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 808 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>oral</td>
<td>LD50</td>
<td>1230 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>2000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>&gt; 4,178 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

Additional information on tests
This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

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.
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 3259
Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
Transport hazard class(es): 8
Packing group: II
Hazard label: 8
Limited quantity: 1 kg

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

Air transport (ICAO)

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
Limited quantity Passenger: 5 kg
Passenger LQ: Y844
Excepted quantity: E2
IATA-packing instructions - Passenger: 859
IATA-max. quantity - Passenger: 15 kg
15. Regulatory information

U.S. Regulations

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) (57214-10-5):
Immediate (acute) health hazard
Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) health hazard
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2): Immediate (acute) health hazard
m-Phenylenebis(methylamine) (1477-55-0): Immediate (acute) health hazard
benzyl alcohol (100-51-6): Immediate (acute) health hazard
Quartz (< 10µm) * (14808-60-7): 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 contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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: 01.08.2016
Revision No: 1,03,0

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(IMuropean Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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.)