

**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 (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

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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 ³ |
| 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 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 15000 mg/kg | Rat | | |
| | dermal | LD50 23000 mg/kg | Rabbit | | |
| 9003-36-5 | Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Rat | | |
| 30499-70-8 | 1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)oxirane | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | 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 (chloromethyl)oxirane)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child (1,3-Propanediol, 2-ethyl-2(hydroxymethyl)-, polymer with (chloromethyl)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 mg/l 2,54 | 96 h | Danio rerio (zebrafish) | | |
| | Acute algae toxicity | ErC50 1,8 mg/l | 96 h | Selenastrum capricornutum | | |
| | Acute crustacea toxicity | EC50 mg/l 2,55 | 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: | - |
| Revision date: | 01/30/2025 |
| Revision No: | 1,24 |

**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.

(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 (CO₂)

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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 ³ | 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 ³ |
| 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) > 5000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 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.)