

according to Regulation (EC) No 1907/2006 (REACH) as amended

TELHARD POX RAPID 2

| | | | |
|---------------|--------------------|---------|-----|
| Creation date | 05th August 2016 | Version | 2.0 |
| Revision date | 09th February 2021 | | |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture TELHARD POX RAPID 2
UFI mixture Q75W-Q0T2-S00C-T294
Other mixture names
Hardener for epoxy paints TELPOX
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Hardener.
Main intended use
PC-PNT-OTH Other paints and coating materials
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
Exposure scenario is attached to the Safety Data Sheet.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name BARVY A LAKY TELURIA,s.r.o.
Address č.p.1, Skrchov, 679 61
Czech Republic
Identification number (CRN) 43420371
VAT Reg No CZ43420371
Phone +420 516 474 211
E-mail tel@teluria.cz
Web address http://www.bal.cz
- Competent person responsible for the safety data sheet**
Name BARVY A LAKY TELURIA,s.r.o.
E-mail tel@teluria.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Flam. Liq. 3, H226
Acute Tox. 4, H312+H332
Skin Corr. 1C, H314
Skin Sens. 1A, H317
Eye Dam. 1, H318
Resp. Sens. 1B, H334
STOT SE 3, H335
STOT RE 2, H373
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

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Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. Causes severe skin burns and eye damage. Harmful in contact with skin or if inhaled. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

cashew, nutshell liq., polymer with ethylenediamine and formaldehyde
xylene (mixture of isomers and ethylbenzene)

butan-1-ol

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
2,4,6-tris(dimethylaminomethyl)phenol

Hazard statements

| | |
|-----------|--|
| H226 | Flammable liquid and vapour. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing vapours. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |
| P342+P311 | If experiencing respiratory symptoms: Call a doctor. |

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2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below. The mixture contains a reaction mixture of o, m, p-xylene and ethylbenzene (ethylbenzene content <26%).

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---|---|---------------------|---|------|
| CAS: 68413-28-5 EC: 614-464-2 | cashew, nutshell liq., polymer with ethylenediamine and formaldehyde | <40 | Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Resp. Sens. 1B, H334 | |
| EC: 905-562-9 Registration number: 01-2119555267-33 | xylene (mixture of isomers and ethylbenzene) | 25-29 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 | 1, 2 |
| Index: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 Registration number: 01-2119484630-38 | butan-1-ol | <17 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336 | |
| Index: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5 Registration number: 01-2119456619-26 | reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) | 6-9 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319: C ≥ 5 % | |
| Index: 603-069-00-0 CAS: 90-72-2 EC: 202-013-9 Registration number: 01-2119560597-27 | 2,4,6-tris(dimethylaminomethyl)phenol | 4-8 | Skin Corr. 1C, H314 Skin Sens. 1B, H317 | |
| CAS: 71074-89-0 EC: 275-162-0 | bis[(dimethylamino)methyl]phenol | 1-2 | Skin Corr. 1C, H314 | |

Notes

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Substance with a Union workplace exposure limit.

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Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Inhaling vapours can cause corrosion of the breathing system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

If on skin

Causes severe skin burns. May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available.

| Content | Packaging type | Material of package |
|---------|----------------|---------------------|
| 3,75 kg | can / tin | FE |

Storage class 3A - Flammable liquids (flash point below 55 °C)

Storage temperature min 5 °C, max 25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

Use in coating compositions was assessed for xylene and butan-1-ol. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

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European Union
Commission Directive 2000/39/EC

| Substance name (component) | Type | Value | Note |
|----------------------------|----------------|-----------------------|------|
| xylenes | OEL 8 hours | 221 mg/m ³ | Skin |
| | OEL 8 hours | 50 ppm | |
| | OEL 15 minutes | 442 mg/m ³ | |
| | OEL 15 minutes | 100 ppm | |

DNEL

2,4,6-tris(dimethylaminomethyl)phenol

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers | Dermal | 0.2 mg/kg bw/day | Systemic chronic effects | | |
| | Inhalation | 0.31 mg/m ³ | Systemic chronic effects | | |

butan-1-ol

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 310 mg/m ³ | Systemic chronic effects | | |
| Consumers | Inhalation | 55.36 mg/m ³ | Systemic chronic effects | | |
| Consumers | Oral | 1.56 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 155 mg/m ³ | Systemic acute effects | | |
| Consumers | Dermal | 3.125 mg/kg bw/day | Systemic chronic effects | | |

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 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 12.25 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 12.25 mg/m ³ | Systemic acute effects | | |
| Workers | Dermal | 8.33 mg/kg bw/day | Systemic chronic effects | | |
| Workers | Dermal | 8.33 mg/kg bw/day | Systemic acute effects | | |
| Consumers | Dermal | 3.571 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Dermal | 3.571 mg/kg bw/day | Systemic acute effects | | |
| Consumers | Oral | 0.75 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 0.75 mg/kg bw/day | Systemic acute effects | | |

xylene (mixture of isomers and ethylbenzene)

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 221 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 442 mg/m ³ | Systemic acute effects | | |
| Workers | Inhalation | 442 mg/m ³ | Local acute effects | | |
| Workers | Dermal | 212 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 65.3 mg/m ³ | Systemic chronic effects | | |
| Consumers | Inhalation | 260 mg/m ³ | Systemic acute effects | | |
| Consumers | Inhalation | 260 mg/m ³ | Local acute effects | | |
| Consumers | Dermal | 125 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 12.5 mg/kg bw/day | Systemic chronic effects | | |
| Workers | Inhalation | 221 mg/m ³ | Local chronic effects | | |
| Consumers | Inhalation | 65.3 mg/m ³ | Local chronic effects | | |

PNEC

2,4,6-tris(dimethylaminomethyl)phenol

| Route of exposure | Value | Value determination | Source |
|---|------------|---------------------|--------|
| Drinking water | 0.084 mg/l | | |
| Seawater | 0.08 mg/l | | |
| Microorganisms in wastewater treatment plants | 0.2 mg/l | | |

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butan-1-ol

| Route of exposure | Value | Value determination | Source |
|---|---|---------------------|--------|
| Freshwater environment | 0.082 mg/l | | |
| Seawater | 0.0082 mg/l | | |
| Water (intermittent release) | 2.25 mg/l | | |
| Microorganisms in wastewater treatment plants | 2476 mg/l | | |
| Freshwater sediment | 0.324 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.0324 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.0166 mg/kg of dry substance of soil | | |

 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Value | Value determination | Source |
|---|---|---------------------|--------|
| Freshwater environment | 6 $\mu\text{g/l}$ | | |
| Seawater | 0.6 $\mu\text{g/l}$ | | |
| Water (intermittent release) | 18 $\mu\text{g/l}$ | | |
| Microorganisms in wastewater treatment plants | 10 mg/l | | |
| Freshwater sediment | 0.996 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.0996 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.196 mg/kg of dry substance of soil | | |

xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Value | Value determination | Source |
|---|--|---------------------|--------|
| Drinking water | 0.327 mg/l | | |
| Seawater | 0.327 mg/l | | |
| Water (intermittent release) | 0.327 mg/l | | |
| Microorganisms in wastewater treatment plants | 6.58 mg/l | | |
| Freshwater sediment | 12.46 mg/kg of dry substance of sediment | | |

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xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Value | Value determination | Source |
|---------------------|--|---------------------|--------|
| Sea sediments | 12.46 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 2.31 mg/kg of dry substance of soil | | |

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream.
Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – nitrile rubber, fluoroelastomere, PVA and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Physical state | liquid |
| Colour | colourless |
| color intensity | transparent |
| Odour | data not available |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | Flammable liquid and vapour. |
| Lower and upper explosion limit | data not available |
| Flash point | >30 °C |

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| | |
|---|--|
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | non-soluble (in water) |
| Kinematic viscosity | >20,5 mm ² /s at 40 °C |
| Solubility in water | data not available |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | |
| Density | 1 g/cm ³ at 23 °C (EN ISO 2811-1) |

9.2. Other information

| | |
|-----------------------------------|--|
| Oxidising properties | The product has no oxidizing properties. |
| Content of organic solvents (VOC) | 0,45 kg/kg |
| Total organic carbon (TOC) | 0,40 kg/kg |

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Harmful in contact with skin or if inhaled.

2,4,6-tris(dimethylaminomethyl)phenol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|--------|------------|---------------|----------------------------------|-----|
| Oral | LD ₅₀ | | 2169 mg/kg | | Rat (<i>Rattus norvegicus</i>) | F/M |
| Dermal | LD ₅₀ | | >1 ml/kg | | Rat (<i>Rattus norvegicus</i>) | M |

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butan-1-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|--------|------------|---------------|----------------------------------|-----|
| Oral | LD ₅₀ | | 2292 mg/kg | | Rat (<i>Rattus norvegicus</i>) | |
| Inhalation | LC ₅₀ | | 17.76 mg/l | 4 hour | Rat (<i>Rattus norvegicus</i>) | |
| Dermal | LD ₅₀ | | 3434 mg/kg | | Rabbit | |

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|--------|---------------------|---------------|----------------------------------|-----|
| Oral | LD ₅₀ | | 2000-15000 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | |
| Dermal | LD ₅₀ | | 2000 mg/kg bw | | Rat | |

xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex |
|-------------------|------------------|--------|-------------------------|---------------|----------------------------------|-----|
| Oral | LD ₅₀ | EU B.1 | 3523 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | M |
| Inhalation | LC ₅₀ | EU B.2 | 27124 mg/m ³ | 4 hour | Rat (<i>Rattus norvegicus</i>) | M |
| Dermal | LD ₅₀ | | 12126 mg/kg bw | | Rabbit | |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage. Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

according to Regulation (EC) No 1907/2006 (REACH) as amended

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| | | | |
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Acute toxicity

Harmful to aquatic life with long lasting effects.

2,4,6-tris(dimethylaminomethyl)phenol

| Parameter | Value | Exposure time | Species | Environment |
|------------------|----------|---------------|---------------------------------------|-------------|
| LC ₅₀ | 175 mg/l | 96 hour | Fishes (Cyprinus carpio) | |
| LC ₅₀ | 718 mg/l | 96 hour | Invertebrates (Palaemonetes vulgaris) | |
| EC ₅₀ | 84 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | |

butan-1-ol

| Parameter | Value | Exposure time | Species | Environment |
|------------------|-----------|---------------|---|-------------|
| LC ₅₀ | 1376 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | 1328 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| EC ₅₀ | 225 mg/l | 72 hour | Algae and other aquatic plants | |
| EC 10 | 2476 mg/l | 17 hour | Microorganisms (Photobacterium phosphoreum) | |

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

| Parameter | Value | Exposure time | Species | Environment |
|------------------|--------------|---------------|---|-------------|
| LD ₅₀ | 1.2-3.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | 1.1-2.8 mg/l | 48 hour | Aquatic invertebrates | |
| EC ₅₀ | 9.4-11 mg/l | 72 hour | Algae and other aquatic plants | |
| IC ₅₀ | 100 mg/l | 3 hour | Microorganisms (Photobacterium phosphoreum) | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Exposure time | Species | Environment |
|------------------|----------|---------------|---|-------------|
| LC ₅₀ | 2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | 1 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| LC ₅₀ | 2.2 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Exposure time | Species | Environment |
|-----------|-----------|---------------|------------------------------|-------------|
| NOEC | >1.3 mg/l | 56 day | Fishes (Oncorhynchus mykiss) | |

according to Regulation (EC) No 1907/2006 (REACH) as amended

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xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Exposure time | Species | Environment |
|-----------|----------------|---------------|---------------------------------------|-------------|
| NOEC | 0.96-1.17 mg/l | 7 day | Invertebrates (Ceriodaphnia dubia) | |

12.2. Persistence and degradability

Biodegradability

2,4,6-tris(dimethylaminomethyl)phenol

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|--------|-------|---------------|-------------|--------|
| | | 4 % | 28 day | | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Method | Value | Exposure time | Environment | Result |
|-----------|-----------|-------|---------------|-------------|----------------------|
| | OECD 301F | >90 % | 28 day | | Easily biodegradable |

Data for mixture not available.

12.3. Bioaccumulative potential

2,4,6-tris(dimethylaminomethyl)phenol

| Parameter | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|-------|---------------|---------|-------------|------------------|
| Log Pow | -0.66 | | | | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Exposure time | Species | Environment | Temperature [°C] |
|-----------|-------------|---------------|---------|-------------|------------------|
| BCF | 25900 ml/kg | | | | |
| Log Pow | 3.12-3.2 | | | | |

Data for mixture not available.

12.4. Mobility in soil

2,4,6-tris(dimethylaminomethyl)phenol

| Parameter | Value | Environment | Temperature |
|-----------|-------|-------------|-------------|
| Koc | 20.98 | | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Environment | Temperature |
|-----------|--------|-------------|-------------|
| Koc | 48-129 | | |

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

according to Regulation (EC) No 1907/2006 (REACH) as amended

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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 2735

14.2. UN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl)fenol)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not available

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

80

UN number

2735

Classification code

C7

Safety signs

3+8



according to Regulation (EC) No 1907/2006 (REACH) as amended

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Air transport - ICAO/IATA

| | |
|----------------------------------|-----|
| Packaging instructions passenger | 852 |
| Cargo packaging instructions | 856 |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-A, S-B |
| MFAG | 320 |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

Chemical safety assessment was carried out on substances xylene and butan-1-ol. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|-----------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

Guidelines for safe handling used in the safety data sheet

| | |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |
| P342+P311 | If experiencing respiratory symptoms: Call a doctor. |

according to Regulation (EC) No 1907/2006 (REACH) as amended

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|---------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| ES | Identification code for each substance listed in EINECS |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| log K _{ow} | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NOEC | No observed effect concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |

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| | |
|-----------------|--|
| Acute Tox. | Acute toxicity |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Resp. Sens. | Respiratory sensitization |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The product is exclusively intended for use in installations authorised according to Directive 1999/13/EC where emission limiting measures provide alternative means of achieving at least equivalent VOC emission reductions.

Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 5.8.2016. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

1. Industrial use

| | |
|---|--|
| Application sector | : SU 3 |
| Chemical product category | : PC9a |
| Partial processes covered by exposure scenario: | PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC13, PROC15 |
| Environmental release | : ERC4 |

Basic conditions to control the hazard for workers:

| | |
|---|--|
| Duration of work activities | : Covers exposure up to 8 h/d (unless otherwise specified) |
| Concentration | : Work with the hardener, the hardened standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated. |
| Temperature | : Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature. |
| General risk management measures | : Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the hardener and the hardened coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances. |
| Site where the activities are performed | : Indoor use is anticipated. |

Additional requirements to control the hazard for workers carrying out partial work activities:

| Partial work activities with the product (Partial contributing scenarios) | Process category | Required additional measures to control worker exposure |
|--|---|--|
| Pumping from/to containers and devices within a closed system with no possibility to release emission | PROC 1 Use within closed production process | Irrelevant. |
| Pumping the hardener and the hardened coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Pumping the hardener and the hardened coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Mixing, blending, thinning of the hardener and the hardened coating composition in open devices with possible exposure to volatile components of the coating composition | PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels). | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Application by spraying. | PROC 7 Industrial spraying. | Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator. Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter. |
| Manual hardened coating composition application by roller, brush or palette knife. | PROC 10 Roller, palette knife or brush application | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Dipping or pouring application of hardened coating composition. | PROC 13 Treatment of articles by dipping and pouring | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Free drying of hardened coating composition film at standard or slightly increased ambient temperature (by max. 20 °C) | PROC 4 Use within batch or other process where opportunity for exposure arises | Carry out in well ventilated spaces (3-5 air exchanges per hour). |
| Continuous drying and hardening processes of the hardened coating composition film at increased temperature in drying tunnels equipped with vapour extraction | PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling). | Does not require further risk control measures. |
| Batch drying and hardening processes of the hardened coating composition film at increased temperature in extracted chambers | PROC 3 Use within closed batch process of mixture manufacturing. | Does not require further risk control measures. |
| Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction | PROC 3 Use within closed batch process of mixture manufacturing | Does not require further risk control measures. |

| | | |
|--|---|---|
| Manual cleaning of small containers, application devices and tools | PROC 10 Roller, palette knife or brush application (by a tool held in hand) PROC8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Laboratory checks on the hardener and the coating composition | PROC 15 Use as laboratory reagent (laboratory work with the product) | Good ventilation (3 – 5 air exchanges per hour). |
| Activities involving product waste and waste contaminated by the product | | If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor. |

Additional requirements to control environmental hazards

| | |
|------------------------|--|
| Air emission control | When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations. |
| Water emission control | Store the hardener, the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water. Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water. When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority. |
| Disposal of waste | Dispose of hardener and coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed. |

2. Professional use

| | |
|---|--|
| Application sector | : SU 22 |
| Chemical product category | : PC9a |
| Partial processes covered by exposure scenario: | PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19 |
| Environmental release | : ERC 8a, ERC 8d |

Basic conditions to control the hazard for workers:

| | |
|---|--|
| Duration of work activities | : Covers exposure up to 8 h/d (unless otherwise specified) |
| Concentration | : Work with hardener and standard hardened coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated. |
| Temperature | : Work at temperature up to 20 °C higher than site temperature is anticipated except for the hardened coating composition's drying and hardening processes at increased temperature. |
| General risk management measures | : Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the hardener and the hardened coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances. |
| Site where the activities are performed | : Indoor and outdoor use is anticipated. |

Additional requirements to control the hazard for workers carrying out partial work activities:

| Partial work activities with the product (Partial contributing scenarios) | Process category | Required additional measures to control worker exposure |
|--|---|--|
| Pumping the hardener and the hardened coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint |
| Pumping the hardener and the hardened coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |

| | | |
|--|---|--|
| Mixing, blending, thinning of hardener and the hardened coating composition in open devices with possible exposure to volatile components of the coating composition | PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels). | Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A. |
| Application by spraying. | PROC 11 Non industrial spraying. | Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter. Outdoor: use respiratory protection with filter type A/P2. |
| Manual hardened coating composition application by roller, brush or palette knife. | PROC 10 Roller, palette knife or brush application | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Dipping or pouring application of hardened coating composition. | PROC 13 Treatment of articles by dipping and pouring | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: use respiratory protection with filter type A. |
| Free drying of hardened coating composition film at standard or slightly increased ambient temperature (by max. 20 °C) | PROC 4 Use within batch or other process where opportunity for exposure arises | Indoor: carry out in well ventilated spaces (5 -- 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Batch drying and hardening processes of the hardened coating composition film at increased temperature in extracted chambers | PROC 3 Use within closed batch process of mixture manufacturing. | Does not require further risk control measures. |
| Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction | PROC 3 Use within closed batch process of mixture manufacturing | Does not require further risk control measures. |
| Manual cleaning of small containers, application devices and tools | PROC 10 Roller, palette knife or brush application (by a tool held in hand) | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Laboratory checks on the hardener and the hardened coating composition | PROC 15 Use as laboratory reagent (laboratory work with the product) | Good ventilation (3 – 5 air exchanges per hour). |
| Manual activities involving hand contact | PROC19 Hand-mixing with intimate contact and only PPE available | Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves |
| Activities involving product waste and waste contaminated by the product | | If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor. |

Additional requirements to control environmental hazards

| | |
|------------------------|--|
| Air emission control | Does not require special risk control measures |
| Water emission control | Store the hardener, paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water. Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person. Overspray and drips paint as possible to capture and dispose as hazardous waste. |
| Disposal of waste | Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds. Dispose of hardener waste, paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. |