

# SAFETY DATA SHEET

Date of issue/Date of revision

: 13 June 2022

Version

: 12.01

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

### 1.1 Product identifier

**Product name** : SELEMIX 9-110 HARDENER FOR SINGLE STAGE

**Product code** : 1.959.8110/E5

**Other means of identification**

Not available.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Professional applications, Used by spraying.

**Use of the substance/  
mixture** : Coating.

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

PPG Industries Italia S.r.l., Via Comasina, 121, 20161 Milano, Italy Tel: +39 02 6404.1

PPG Industries (UK) Ltd., Needham Road, Stowmarket, Suffolk, IP14 2AD, UK Tel: +44 (0) 1449 773 338

**e-mail address of person  
responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

### 1.4 Emergency telephone number

Company emergency telephone number : +39 02 6404.1 (0800-1700)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Flam. Liq. 3, H226

Eye Dam. 1, H318

Skin Sens. 1, H317

STOT SE 3, H335

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022  
SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 2: Hazards identification

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: Flammable liquid and vapour.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Response

: 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 or doctor.

#### Storage

: Store in a well-ventilated place. Keep container tightly closed.

#### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

P280, P210, P305 + P351 + P338, P310, P403 + P233, P501

### Hazardous ingredients

: 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)  
hydrophilic aliphatic polyisocyanate  
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
hydrophilic aliphatic polyisocyanate  
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

### Supplemental label elements

: Contains isocyanates. May produce an allergic reaction.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: As from August 24 2023 adequate training is required before industrial or professional use.

### Special packaging requirements

#### Containers to be fitted with child-resistant fastenings

: Not applicable.

#### Tactile warning of danger

: Not applicable.

### 2.3 Other hazards

#### Product meets the criteria for PBT or vPvB

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022  
SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name  | Identifiers  | % by weight | Classification  | Specific Conc. Limits, M-factors and ATEs   | Type    |
|--|--|-------------|---|---|---------|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | REACH #:<br>01-2119488734-24<br>EC: 931-312-3<br>CAS: 53880-05-0<br>(EC 931-312-3)     | ≥25 - ≤50   | Skin Sens. 1B, H317<br>STOT SE 3, H335  | -   | [1] [2] |
| hydrophilic aliphatic polyisocyanate   | CAS: 160994-68-3   | ≥25 - ≤43   | Acute Tox. 4, H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412  | ATE [Inhalation (vapours)] = 11 mg/l  | [1]     |
| [3-(2,3-epoxypropoxy) propyl]trimethoxysilane  | REACH #:<br>01-2119513212-58<br>EC: 219-784-2<br>CAS: 2530-83-8                        | ≥5.0 - ≤10  | Eye Dam. 1, H318  | -   | [1]     |
| 2-methoxy-1-methylethyl acetate  | REACH #:<br>01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6<br>Index: 607-195-00-7  | ≥5.0 - ≤10  | Flam. Liq. 3, H226<br>STOT SE 3, H336   | -   | [1] [2] |
| hydrophilic aliphatic polyisocyanate   | CAS: 191427-71-1   | ≥5.0 - ≤10  | Skin Sens. 1, H317<br>STOT SE 3, H335   | -   | [1]     |
| xylene   | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥5.0 - ≤8.8 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304   | ATE [Dermal] = 1700 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l   | [1] [2] |
| ethylbenzene   | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≥1.0 - ≤4.1 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412  | ATE [Inhalation (vapours)] = 17.8 mg/l  | [1] [2] |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate                              | REACH #:<br>01-2119490408-31<br>EC: 223-861-6<br>CAS: 4098-71-9<br>Index: 615-008-00-5 | ≤0.30       | Acute Tox. 1, H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 2, H411<br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Inhalation (dusts and mists)] = 0.04 mg/l<br>Resp. Sens. 1, H334: C ≥ 0.5%<br>Skin Sens. 1, H317: C ≥ 0.5% | [1] [2] |

Code : 1.959.8110/E5

Date of issue/Date of revision

: 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SUB codes represent substances without registered CAS Numbers.**

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 4: First aid measures

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
metal oxide/oxides  
Cyanate and isocyanate.  
hydrogen cyanide

#### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 6: Accidental release measures

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- 6.3 Methods and material for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- Special provisions** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 7: Handling and storage

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Precautions should be taken to minimise exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

### SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

##### Occupational exposure limits

| Product/ingredient name  | Exposure limit values  |
|--|--|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | <b>IPEL (-).</b><br>TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1 mg/m <sup>3</sup>  |
| 2-methoxy-1-methylethyl acetate  | <b>EU OEL (Europe, 10/2019). Absorbed through skin.</b><br>STEL: 550 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 275 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.                         |
| xylene   | <b>EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed through skin.</b><br>STEL: 442 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 221 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |
| ethylbenzene   | <b>EU OEL (Europe, 10/2019). Absorbed through skin.</b><br>STEL: 884 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 442 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.                        |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate                              | <b>ACGIH TLV (United States, 1/2021).</b><br>TWA: 0.005 ppm 8 hours.   |



Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs

| Product/ingredient name  | Type | Exposure              | Value                   | Population         | Effects  |
|--|------|-----------------------|-------------------------|--------------------|----------|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | DNEL | Long term Inhalation  | 0.29 mg/m <sup>3</sup>  | Workers            | Local    |
|  | DNEL | Short term Inhalation | 0.58 mg/m <sup>3</sup>  | Workers            | Local    |
| [3-(2,3-epoxypropoxy)propyl] trimethoxysilane  | DNEL | Short term Inhalation | 147 mg/m <sup>3</sup>   | Workers            | Systemic |
|  | DNEL | Short term Dermal     | 21 mg/kg bw/day         | Workers            | Systemic |
| 2-methoxy-1-methylethyl acetate  | DNEL | Long term Oral        | 5 mg/kg bw/day          | General population | Systemic |
|  | DNEL | Long term Dermal      | 5 mg/kg bw/day          | General population | Systemic |
| xylene   | DNEL | Long term Dermal      | 10 mg/kg bw/day         | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 17 mg/m <sup>3</sup>    | General population | Systemic |
| ethylbenzene   | DNEL | Long term Inhalation  | 70.5 mg/m <sup>3</sup>  | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 26400 mg/m <sup>3</sup> | General population | Systemic |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl   | DNEL | Long term Oral        | 1.67 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Inhalation  | 33 mg/m <sup>3</sup>    | General population | Local    |
|  | DNEL | Long term Inhalation  | 33 mg/m <sup>3</sup>    | General population | Systemic |
|  | DNEL | Long term Dermal      | 54.8 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Dermal      | 153.5 mg/kg bw/day      | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 275 mg/m <sup>3</sup>   | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 550 mg/m <sup>3</sup>   | Workers            | Local    |
|  | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population | Systemic |
|  | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population | Local    |
|  | DNEL | Long term Dermal      | 125 mg/kg bw/day        | General population | Systemic |
|  | DNEL | Long term Inhalation  | 65.3 mg/m <sup>3</sup>  | General population | Systemic |
|  | DNEL | Long term Oral        | 12.5 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Inhalation  | 221 mg/m <sup>3</sup>   | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 442 mg/m <sup>3</sup>   | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 221 mg/m <sup>3</sup>   | Workers            | Local    |
|  | DNEL | Short term Inhalation | 442 mg/m <sup>3</sup>   | Workers            | Local    |
|  | DNEL | Long term Dermal      | 212 mg/kg bw/day        | Workers            | Systemic |
|  | DNEL | Long term Inhalation  | 65.3 mg/m <sup>3</sup>  | General population | Local    |
|  | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population | Local    |
|  | DNEL | Short term Inhalation | 260 mg/m <sup>3</sup>   | General population | Systemic |
|  | DNEL | Long term Inhalation  | 221 mg/m <sup>3</sup>   | Workers            | Local    |
|  | DNEL | Long term Oral        | 1.6 mg/kg bw/day        | General population | Systemic |
|  | DNEL | Long term Inhalation  | 15 mg/m <sup>3</sup>    | General population | Systemic |
|  | DNEL | Long term Inhalation  | 77 mg/m <sup>3</sup>    | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 180 mg/kg bw/day        | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 293 mg/m <sup>3</sup>   | Workers            | Local    |
|  | DNEL | Long term Inhalation  | 0.045 mg/m <sup>3</sup> | Workers            | Local    |



Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

**SECTION 8: Exposure controls/personal protection**

|            |      |                       |                         |         |       |
|------------|------|-----------------------|-------------------------|---------|-------|
| isocyanate | DNEL | Short term Inhalation | 0.045 mg/m <sup>3</sup> | Workers | Local |
|            | DNEL | Short term Inhalation | 0.045 mg/m <sup>3</sup> | Workers | Local |
|            | DNEL | Long term Inhalation  | 0.045 mg/m <sup>3</sup> | Workers | Local |

**PNECs**

| Product/ingredient name                                 | Type | Compartment Detail     | Value            | Method Detail            |
|---|------|------------------------|------------------|--------------------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane            | -    | Fresh water            | 1 mg/l           | Assessment Factors       |
|   | -    | Marine water           | 0.1 mg/l         | Assessment Factors       |
|   | -    | Sewage Treatment Plant | 10 mg/l          | Assessment Factors       |
|   | -    | Fresh water sediment   | 3.6 mg/kg dwt    | Equilibrium Partitioning |
|   | -    | Marine water sediment  | 0.36 mg/kg dwt   | Equilibrium Partitioning |
| 2-methoxy-1-methylethyl acetate                         | -    | Soil                   | 0.14 mg/kg dwt   | Equilibrium Partitioning |
|   | -    | Fresh water            | 0.635 mg/l       | -                        |
|   | -    | Marine water           | 0.0635 mg/l      | -                        |
|   | -    | Fresh water sediment   | 3.29 mg/kg       | -                        |
|   | -    | Marine water sediment  | 0.329 mg/kg      | -                        |
| xylene  | -    | Soil                   | 0.29 mg/kg       | -                        |
|   | -    | Sewage Treatment Plant | 100 mg/l         | -                        |
|   | -    | Fresh water            | 0.327 mg/l       | -                        |
|   | -    | Marine water           | 0.327 mg/l       | -                        |
|   | -    | Sewage Treatment Plant | 6.58 mg/l        | -                        |
| ethylbenzene  | -    | Fresh water sediment   | 12.46 mg/kg dwt  | -                        |
|   | -    | Marine water sediment  | 12.46 mg/kg dwt  | -                        |
|   | -    | Soil                   | 2.31 mg/kg       | -                        |
|   | -    | Fresh water            | 0.1 mg/l         | Assessment Factors       |
|   | -    | Marine water           | 0.01 mg/l        | Assessment Factors       |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | -    | Sewage Treatment Plant | 9.6 mg/l         | Assessment Factors       |
|   | -    | Fresh water sediment   | 13.7 mg/kg dwt   | Equilibrium Partitioning |
|   | -    | Marine water sediment  | 1.37 mg/kg dwt   | Equilibrium Partitioning |
|   | -    | Soil                   | 2.68 mg/kg dwt   | Equilibrium Partitioning |
|   | -    | Secondary Poisoning    | 20 mg/kg         | -                        |
|   | -    | Fresh water            | 0.06 mg/l        | Assessment Factors       |
|   | -    | Marine water           | 0.003 mg/l       | Assessment Factors       |
|   | -    | Sewage Treatment Plant | 10.6 mg/l        | Assessment Factors       |
|   | -    | Fresh water sediment   | 218.92 mg/kg dwt | Equilibrium Partitioning |
|   | -    | Marine water sediment  | 21.89 mg/kg dwt  | Equilibrium Partitioning |
|   | -    | Soil                   | 44.01 mg/kg dwt  | Equilibrium Partitioning |

**8.2 Exposure controls**

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles and face shield. Use eye protection according to EN 166.

Code : 1.959.8110/E5

Date of issue/Date of revision

: 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 8: Exposure controls/personal protection

### Skin protection

#### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### Gloves

: butyl rubber

#### Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

#### Restrictions on use

: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

: Liquid.

##### Colour

: Colourless.

##### Odour

: Characteristic.

##### Odour threshold

: Not available.

##### Melting point/freezing point

:

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 9: Physical and chemical properties

May start to solidify at the following temperature: -66°C (-86.8°F) This is based on data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -80.45°C (-112.8°F)

Initial boiling point and boiling range : >37.78°C

Flammability : liquid

Upper/lower flammability or explosive limits : Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)

Flash point : Closed cup: 43°C

Auto-ignition temperature :

| Ingredient name                 | °C  | °F    | Method    |
|---------------------------------|-----|-------|-----------|
| 2-methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |

Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7).

pH : Not applicable. insoluble in water.

Viscosity : Kinematic (40°C): >21 mm²/s

Viscosity : 60 - 100 s (ISO 6mm)

Solubility(ies) :

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure :

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| ethylbenzene    | 9.3                     | 1.2 |        |                         |     |        |

Evaporation rate : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79 compared with butyl acetate

Relative density : 1.09

Vapour density : Highest known value: 8.1 (Air = 1) ([3-(2,3-epoxypropoxy)propyl]trimethoxysilane). Weighted average: 5.57 (Air = 1)

Explosive properties : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.

#### Particle characteristics

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : In a fire, hazardous decomposition products may be produced.  
Refer to protective measures listed in sections 7 and 8.
- 10.5 Incompatible materials** : Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water.  
Uncontrolled exothermic reactions occur with amines and alcohols.
- 10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials:  
Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide metal oxide/oxides

### SECTION 11: Toxicological information

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

##### Acute toxicity

| Product/ingredient name  | Result                          | Species | Dose                    | Exposure |
|--|---------------------------------|---------|-------------------------|----------|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | LC50 Inhalation Dusts and mists | Rat     | >5010 mg/m <sup>3</sup> | 4 hours  |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane   | LD50 Oral                       | Rat     | >14 g/kg                | -        |
|  | LC50 Inhalation Dusts and mists | Rat     | >5300 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 4.3 g/kg                | -        |
| 2-methoxy-1-methylethyl acetate  | LD50 Oral                       | Rat     | 7.01 g/kg               | -        |
|  | LC50 Inhalation Vapour          | Rat     | 30 mg/l                 | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | >5 g/kg                 | -        |
|  | LD50 Oral                       | Rat     | 6190 mg/kg              | -        |
| hydrophilic aliphatic polyisocyanate   | LC50 Inhalation Dusts and mists | Rat     | >5 mg/l                 | 4 hours  |
| xylene   | LD50 Dermal                     | Rabbit  | 1.7 g/kg                | -        |
|  | LD50 Oral                       | Rat     | 4.3 g/kg                | -        |
| ethylbenzene   | LC50 Inhalation Vapour          | Rat     | 17.8 mg/l               | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 17.8 g/kg               | -        |
|  | LD50 Oral                       | Rat     | 3.5 g/kg                | -        |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate                              | LC50 Inhalation Dusts and mists | Rat     | 0.04 mg/l               | 4 hours  |
|  | LD50 Dermal                     | Rabbit  | 1060 mg/kg              | -        |
|  | LD50 Oral                       | Rat     | 4825 mg/kg              | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

##### Irritation/Corrosion

| Product/ingredient name                      | Result                   | Species | Score | Exposure        | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Eyes - Cornea opacity    | Rabbit  | 11.8  | 1 minutes       | 24 hours    |
| xylene                                       | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |

**Conclusion/Summary**

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 11: Toxicological information

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

### Sensitisation

| Product/ingredient name  | Route of exposure | Species    | Result      |
|--|-------------------|------------|-------------|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | skin              | Guinea pig | Sensitising |
| hydrophilic aliphatic polyisocyanate   | skin              | Mouse      | Sensitising |

### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Teratogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

| Product/ingredient name  | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) | Category 3 | -                 | Respiratory tract irritation |
| hydrophilic aliphatic polyisocyanate   | Category 3 | -                 | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate  | Category 3 | -                 | Narcotic effects             |
| hydrophilic aliphatic polyisocyanate   | Category 3 | -                 | Respiratory tract irritation |
| xylene   | Category 3 | -                 | Respiratory tract irritation |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate                              | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | -                 | hearing organs |

### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| xylene                  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Inhalation** : May cause respiratory irritation.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022  
SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## SECTION 11: Toxicological information

**Eye contact** : Causes serious eye damage.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.



Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 11: Toxicological information

#### 11.2.2 Other information

Not available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

| Product/ingredient name                     | Result                          | Species                      | Exposure |
|---|---------------------------------|------------------------------|----------|
| 3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Acute LC50 324 mg/l             | Daphnia                      | 48 hours |
| 2-methoxy-1-methylethyl acetate             | Acute LC50 134 mg/l Fresh water | Fish - Oncorhynchus mykiss   | 96 hours |
| ethylbenzene                                | Acute EC50 1.8 mg/l Fresh water | Daphnia                      | 48 hours |
|   | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

| Product/ingredient name         | Test | Result                   | Dose | Inoculum |
|---------------------------------|------|--------------------------|------|----------|
| 2-methoxy-1-methylethyl acetate | -    | 83 % - Readily - 28 days | -    | -        |
| ethylbenzene                    | -    | 79 % - Readily - 10 days | -    | -        |

**Conclusion/Summary** : There are no data available on the mixture itself.

| Product/ingredient name         | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------|-------------------|------------|------------------|
| 2-methoxy-1-methylethyl acetate | -                 | -          | Readily          |
| xylene                          | -                 | -          | Readily          |
| ethylbenzene                    | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name                                 | LogP <sub>ow</sub> | BCF         | Potential |
|---|--------------------|-------------|-----------|
| 2-methoxy-1-methylethyl acetate                         | 1.2                | -           | low       |
| xylene  | 3.12               | 7.4 to 18.5 | low       |
| ethylbenzene  | 3.6                | 79.43       | low       |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 0.99               | -           | low       |

#### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022

## SELEMIX 9-110 HARDENER FOR SINGLE STAGE

### SECTION 12: Ecological information

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

##### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

##### European waste catalogue (EWC)

| Waste code | Waste designation   |
|------------|---|
| 08 01 11*  | waste paint and varnish containing organic solvents or other hazardous substances |

##### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--------------------------------|
| Container         | 15 01 04 metallic packaging    |

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information

|                                 | ADR/RID         | ADN             | IMDG            | IATA            |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number     | UN1263          | UN1263          | UN1263          | UN1263          |
| 14.2 UN proper shipping name    | PAINT           | PAINT           | PAINT           | PAINT           |
| 14.3 Transport hazard class(es) | 3               | 3               | 3               | 3               |
| 14.4 Packing group              | III             | III             | III             | III             |
| 14.5 Environmental hazards      | No.             | Yes.            | No.             | No.             |
| Marine pollutant substances     | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022  
SELEMIX 9-110 HARDENER FOR SINGLE STAGE

## 14. Transport information

### Additional information

ADR/RID : None identified.  
Tunnel code : (D/E)  
ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.  
IMDG : None identified.  
IATA : None identified.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : As from August 24 2023 adequate training is required before industrial or professional use.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

###### Category

P5c

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

**Code : 1.959.8110/E5 Date of issue/Date of revision : 13 June 2022**

**SELEMIX 9-110 HARDENER FOR SINGLE STAGE**

**SECTION 16: Other information**

 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 PBT = Persistent, Bioaccumulative and Toxic  
 vPvB = Very Persistent and Very Bioaccumulative  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 IMDG = International Maritime Dangerous Goods  
 IATA = International Air Transport Association

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification   | Justification   |
|--|---|
| Flam. Liq. 3, H226<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

|  |   |
|--|---|
| H225<br>H226<br>H304<br>H312<br>H315<br>H317<br>H318<br>H319<br>H330<br>H332<br>H334<br><br>H335<br>H336<br>H373<br><br>H411<br>H412 | Highly flammable liquid and vapour.<br>Flammable liquid and vapour.<br>May be fatal if swallowed and enters airways.<br>Harmful in contact with skin.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Causes serious eye irritation.<br>Fatal if inhaled.<br>Harmful if inhaled.<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>May cause damage to organs through prolonged or repeated exposure.<br>Toxic to aquatic life with long lasting effects.<br>Harmful to aquatic life with long lasting effects. |
|--|---|

**Full text of classifications [CLP/GHS]**

|   |   |
|---|---|
| Acute Tox. 1<br>Acute Tox. 4<br>Aquatic Chronic 2<br>Aquatic Chronic 3<br>Asp. Tox. 1<br>Eye Dam. 1<br>Eye Irrit. 2<br>Flam. Liq. 2<br>Flam. Liq. 3<br>Resp. Sens. 1<br>Skin Irrit. 2<br>Skin Sens. 1 | ACUTE TOXICITY - Category 1<br>ACUTE TOXICITY - Category 4<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3<br>ASPIRATION HAZARD - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 2<br>FLAMMABLE LIQUIDS - Category 3<br>RESPIRATORY SENSITISATION - Category 1<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITISATION - Category 1 |
|---|---|

|                             |  |
|-----------------------------|--|
| <b>Code</b> : 1.959.8110/E5 | <b>Date of issue/Date of revision</b> : 13 June 2022 |
|-----------------------------|--|

**SELEMIX 9-110 HARDENER FOR SINGLE STAGE**

## SECTION 16: Other information

|   |  |
|---|--|
| Skin Sens. 1B<br>STOT RE 2<br><br>STOT SE 3 | SKIN SENSITISATION - Category 1B<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
|---|--|

### History

**Date of issue/ Date of revision** : 13 June 2022  
**Date of previous issue** : 28 February 2022  
**Prepared by** : EHS  
**Version** : 12.01

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*