SAFETY DATA SHEET

WEICON Fire Safe Epoxy Hardener

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

1.1 Product identifier

Product name : WEICON Fire Safe Epoxy Hardener

UFI : YMWE-H0HV-U00J-4Y93

Product code : 170012

Color : Grayish-white.

Product description : Hardener for resins.

Product type : Liquid.

Other means of identification : Not available.

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

Identified uses

Hardener for resins.

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG
Königsberger Str. 255,
48157 Münster, Germany
phone:+49 251 93220,
email: info@weicon.de,
URL: www.weicon.de

e-mail address of person responsible for this SDS : msds@weicon.de

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

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]

Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
STOT RE 1, H372
Aquatic Chronic 2, H411

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

SECTION 2: Hazards identification

Hazard pictograms :

Signal word : Danger

Hazard statements : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H372 - Causes damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Prevention : P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing and eye or face protection.

Response : P391 - Collect spillage.
P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338, P310 - 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 : P405 - Store locked up.

Disposal : P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients : Quartz (SiO2); 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyl alcohol; Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine; 3-aminopropyltriethoxysilane; 2-piperazin-1-ylethylamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; Orange, sweet, ext.; m-phenylenebis(methylamine) and Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

Supplemental label elements : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Yes, applicable.

Tactile warning of danger : Yes, applicable.

2.3 Other hazards

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : 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 : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	≥25 - ≤50	STOT RE 1, H372 (inhalation)	-	[1]
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino] butyl-terminated	CAS: 68683-29-4	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	REACH #: 01-2119965162-39 EC: 500-302-7 CAS: 113930-69-1	≥10 - ≤25	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥3 - ≤5	Acute Tox. 4, H302 Acute Tox. 4, H332	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	EC: 220-666-8 CAS: 2855-13-2	≥3 - ≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	EC: 202-013-9 CAS: 90-72-2	≥1 - ≤3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 500 mg/kg	[1]
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	REACH #: 01-2119983521-35 EC: 606-078-8 CAS: 186321-96-0	≥1 - ≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥1 - ≤3	Carc. 2, H351 (inhalation)	-	[1] [2] [*]
3-aminopropyltriethoxysilane	REACH #: 01-2119480479-24 EC: 213-048-4	≥1 - <3	Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318	ATE [Inhalation (vapours)] = 11 mg/l	[1]

SECTION 3: Composition/information on ingredients

	CAS: 919-30-2		Skin Sens. 1B, H317	Skin Sens. 1, H317: C ≥ 3%	
2-piperazin-1-ylethylamine	REACH #: 01-2119471486-30 EC: 205-411-0 CAS: 140-31-8	≥0.3 - <1	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg	[1]
Orange, sweet, ext.	REACH #: 01-2119493353-35 EC: 232-433-8 CAS: 8028-48-6	≥0.3 - <1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥0.3 - <1	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
Phenol, styrenated	REACH #: 01-2119980970-27 EC: 262-975-0 CAS: 61788-44-1	≥0.3 - <1	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 **See Section 16 for the full text of the H statements declared above.**	-	[1]

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.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire,

SECTION 4: First aid measures

symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Over-exposure signs/symptoms

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

Inhalation : No specific data.

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

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 an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic 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.

SECTION 5: Firefighting measures

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions 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.

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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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".

6.2 Environmental precautions : Avoid dispersal of spilled 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. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. 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. Approach 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 spilled product.

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

SECTION 7: Handling and storage

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 vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
crystalline silica, respirable powder	**DFG MAC-values list (Germany, 7/2024) [Silica, crystalline]** Carc 1.
3-aminomethyl-3,5,5-trimethylcyclohexylamine benzyl alcohol	**DFG MAC-values list (Germany, 7/2024)** Skin sensitizer. **DFG MAC-values list (Germany, 7/2024)** Develop C. Absorbed through skin. PEAK 15 minutes: 44 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm. **TRGS 900 OEL (Germany, 3/2025)** Absorbed through skin. PEAK 15 minutes: 10 ppm. PEAK 15 minutes: 44 mg/m³. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.
titanium dioxide	**DFG MAC-values list (Germany, 7/2024)** Carc 4, Develop C. PEAK 15 minutes: 2.4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction.

SECTION 8: Exposure controls/personal protection

	TWA 8 hours: 0.3 mg/m³. Form: respirable fraction. **TRGS 900 OEL (Germany, 3/2025) [Allgemeiner Staubgrenzwert]** TWA 8 hours: 1.25 mg/m³. Form: alveolar fraction. PEAK 15 minutes: 20 mg/m³. Form: inhalable fraction. TWA 8 hours: 10 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 2.5 mg/m³. Form: alveolar fraction.
benzyl alcohol	**DFG MAC-values list (Germany, 7/2024)** Develop C. Absorbed through skin. PEAK 15 minutes: 44 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 10 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm. **TRGS 900 OEL (Germany, 3/2025)** Absorbed through skin. PEAK 15 minutes: 10 ppm. PEAK 15 minutes: 44 mg/m³. TWA 8 hours: 22 mg/m³. TWA 8 hours: 5 ppm.
3-aminomethyl-3,5,5-trimethylcyclohexylamine m-phenylenebis(methylamine)	**DFG MAC-values list (Germany, 7/2024)** Skin sensitizer. **DFG MAC-values list (Germany, 7/2024)** Skin sensitizer.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : 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/DMELs

Product/ingredient name	Result
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	**DNEL - General population - Long term - Oral** 50 µg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 50 µg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 74 µg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.14 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 0.493 mg/m³ Effects: Systemic
3-aminomethyl-3,5,5-trimethylcyclohexylamine	**DNEL - Workers - Short term - Inhalation** 0.073 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation**

SECTION 8: Exposure controls/personal protection

	0.073 mg/m³ Effects: Local **DNEL - General population - Long term - Oral** 0.3 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 0.3 mg/kg bw/day Effects: Systemic
benzyl alcohol	**DNEL - General population - Long term - Oral** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 5.4 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 8 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 20 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 20 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 22 mg/m³ Effects: Systemic **DNEL - General population - Short term - Inhalation** 27 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Dermal** 40 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Inhalation** 110 mg/m³ Effects: Systemic
2,4,6-tris(dimethylaminomethyl)phenol	**DNEL - General population - Long term - Oral** 0.075 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 0.075 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 0.075 mg/kg bw/day Effects: Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Inhalation
0.13 mg/m³
Effects: Systemic

DNEL - General population - Long term - Inhalation
0.13 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Dermal
0.15 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation
0.53 mg/m³
Effects: Systemic

DNEL - Workers - Short term - Dermal
0.6 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Short term - Inhalation
2.1 mg/m³
Effects: Systemic

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

DNEL - General population - Long term - Oral
0.5 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal
0.5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
1.74 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
7.05 mg/m³
Effects: Systemic

3-aminopropyltriethoxysilane

DNEL - General population - Long term - Oral
1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal
1 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
2 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
3.5 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
14 mg/m³
Effects: Systemic

SECTION 8: Exposure controls/personal protection

benzyl alcohol	**DNEL - General population - Long term - Oral** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 5.4 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 8 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 20 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 20 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 22 mg/m³ Effects: Systemic **DNEL - General population - Short term - Inhalation** 27 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Dermal** 40 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Inhalation** 110 mg/m³ Effects: Systemic
2-piperazin-1-ylethylamine	**DNEL - Workers - Long term - Inhalation** 15 µg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 80 µg/m³ Effects: Local **DNEL - Workers - Long term - Dermal** 3.33 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Inhalation** 10.6 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 10.6 mg/m³ Effects: Systemic
3-aminomethyl-3,5,5-trimethylcyclohexylamine	**DNEL - Workers - Short term - Inhalation** 0.073 mg/m³

SECTION 8: Exposure controls/personal protection

	Effects: Local **DNEL - Workers - Long term - Inhalation** 0.073 mg/m³ Effects: Local **DNEL - General population - Long term - Oral** 0.3 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 0.3 mg/kg bw/day Effects: Systemic
Orange, sweet, ext.	**DNEL - General population - Short term - Dermal** 92.9 µg/cm² Effects: Local **DNEL - Workers - Short term - Dermal** 185.8 µg/cm² Effects: Local **DNEL - General population - Long term - Oral** 4.44 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 4.44 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 7.78 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 8.89 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 31.1 mg/m³ Effects: Systemic
m-phenylenebis(methylamine)	**DNEL - Workers - Long term - Inhalation** 0.2 mg/m³ Effects: Local **DNEL - Workers - Long term - Dermal** 0.33 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 1.2 mg/m³ Effects: Systemic
octamethylcyclotetrasiloxane	**DNEL - General population - Long term - Oral** 3.7 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 13 mg/m³ Effects: Local **DNEL - General population - Long term - Inhalation**

SECTION 8: Exposure controls/personal protection

13 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
73 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
73 mg/m³
Effects: Systemic

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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 : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

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.

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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

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. [Pasty]

Color : Grayish-white.

Odor : Characteristic.

Odor threshold : Not available.

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flammability : Not available.

Lower and upper explosion limit : Not available.

Flash point :

	Closed cup			Open cup		
Ingredient name	**°C**	**°F**	**Method**	**°C**	**°F**	**Method**
Orange, sweet, ext.	50	122				
octamethylcyclotetrasiloxane	56	132.8				
decamethylcyclopentasiloxane				82.7	180.9	ASTM D 3828-87
3-aminopropyltriethoxysilane	93	199.4	DIN 51758			
2-piperazin-1-ylethylamine				99	210.2	ISO 2719
benzyl alcohol	100.56	213				
3-aminomethyl-3,5,5-trimethylcyclohexylamine				110	230	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	>110	>230				
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	128	262.4				
m-phenylenebis(methylamine)				134	273.2	
propylidynetrimethanol	172	341.6				

Auto-ignition temperature :

Ingredient name	**°C**	**°F**	**Method**
Orange, sweet, ext.	235	455	EU A.15
2-piperazin-1-ylethylamine	>300	>572	
decamethylcyclopentasiloxane	372	701.6	ASTM E 659-78
2,4,6-tris(dimethylaminomethyl)phenol	382	719.6	EU A.15
octamethylcyclotetrasiloxane	384 to 387	723.2 to 728.6	ASTM E 659
benzyl alcohol	436	816.8	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	526	978.8	

Decomposition temperature : Not available.

pH : Not applicable.

SECTION 9: Physical and chemical properties

Viscosity : Not available.

Solubility :

Not available.

Solubility in water : Not available.

Partition coefficient n-octanol/ water (log Pow) : Not applicable.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Orange, sweet, ext.	1.4	0.19				
octamethylcyclotetrasiloxane	0.99	0.13				
decamethylcyclopentasiloxane	0.25	0.033				
2,4,6-tris(dimethylaminomethyl) phenol	0.06	0.008	EU A.4			
benzyl alcohol	0.05	0.0067				
2-piperazin-1-ylethylamine	0.039	0.0052				
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.01	0.0013	OECD 104			
m-phenylenebis(methylamine)	0.01	0.0013	OECD 104			
propylidynetrimethanol	0	0				

Relative density : Not available.

Density : 1.4 g/cm³ [21°C (69.8°F)]

Relative vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidizing properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

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 : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result
benzyl alcohol	**Rat - Oral - LD50** 1230 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma **Mouse - Oral - LD50** 1360 mg/kg **Rabbit - Oral - LD50** 1040 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) **Mouse - Oral - LD50** 1360 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression **Rat - Oral - LD50** 1660 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression **Rabbit - Oral - LD50** 1040 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression **Rabbit - Dermal - LD50** 2000 mg/kg **Rat - Oral - LD50** 1.5 ml/kg
3-aminopropyltriethoxysilane	**Rat - Oral - LD50** 1.57 g/kg Toxic effects: Gastrointestinal - Hypermotility, diarrhea Kidney, Ureter, and Bladder - Changes in tubules (including acute renal failure, acute tubular necrosis) **Rabbit - Dermal - LD50** 4.29 g/kg Toxic effects: Gastrointestinal - Ulceration or bleeding from stomach Kidney, Ureter, and Bladder - Other changes Skin After topical exposure - Primary irritation
benzyl alcohol	**Rat - Oral - LD50** 1230 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma **Rabbit - Dermal - LD50** 2000 mg/kg
m-phenylenebis(methylamine)	**Rat - Oral - LD50**

SECTION 11: Toxicological information

	930 mg/kg **Rabbit - Dermal - LD50** 2 g/kg **Rat - Inhalation - LC50 Gas.** 700 ppm [1 hours] Toxic effects: Eye - Lacrimation Lung, Thorax, or Respiration - Respiratory depression
octamethylcyclotetrasiloxane	**Rat - Inhalation - LC50 Vapor** 36 g/m³ [4 hours] Toxic effects: Behavioral - Excitement Lung, Thorax, or Respiration - Dyspnea Other - Hair

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
WEICON Fire Safe Epoxy Hardener	5177.6	16219.9	N/A	765.9	38.1
benzyl alcohol	500	N/A	N/A	N/A	1.5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	500	1100	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	500	N/A	N/A	N/A	N/A
3-aminopropyltriethoxysilane	N/A	4290	N/A	11	N/A
2-piperazin-1-ylethylamine	500	300	N/A	N/A	N/A
m-phenylenebis(methylamine)	500	N/A	N/A	N/A	1.5

Skin corrosion/irritation

Product/ingredient name	Result
benzyl alcohol	**Man - Skin - Mild irritant** Duration of treatment/exposure: 48 hours Amount/concentration applied: 16 mg **Pig - Skin - Moderate irritant** Amount/concentration applied: 100 % **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
3-aminopropyltriethoxysilane	**Rabbit - Skin - Severe irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg
benzyl alcohol	**Man - Skin - Mild irritant** Duration of treatment/exposure: 48 hours Amount/concentration applied: 16 mg **Pig - Skin - Moderate irritant** Amount/concentration applied: 100 % **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
2-piperazin-1-ylethylamine	**Rabbit - Skin - Severe irritant** Duration of treatment/exposure: 24 hours

SECTION 11: Toxicological information

	Amount/concentration applied: 5 mg
m-phenylenebis(methylamine)	**Rabbit - Skin - Severe irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 750 ug

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
2-piperazin-1-ylethylamine	**Rabbit - Eyes - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg
m-phenylenebis(methylamine)	**Rabbit - Eyes - Severe irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 50 ug

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
crystalline silica, respirable powder	-
2-piperazin-1-ylethylamine	-

Aspiration hazard

Product/ingredient name	Result
Orange, sweet, ext.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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

Inhalation : No specific data.

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

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also 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 [Product] : Not available.

General : Causes damage to organs through prolonged or repeated exposure. 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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
benzyl alcohol	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* - Juvenile (Fledgling, Hatchling, Weanling) Age: 4 to 8 weeks; Size: 1.1 to 3.1 cm 460 mg/l [96 hours] Effect: Mortality **Acute - LC50 - Fresh water** Fish - Bluegill - *Lepomis macrochirus* 10 ppm [96 hours] Effect: Mortality
benzyl alcohol	**Acute - LC50 - Fresh water** Fish - Bluegill - *Lepomis macrochirus* 10 ppm [96 hours] Effect: Mortality
2-piperazin-1-ylethylamine	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* Age: 31 days; Size: 21 mm; Weight: 0.147 g 2190 mg/l [96 hours] Effect: Mortality
3-aminomethyl-3,5,5-trimethylcyclohexylamine	**Acute - EC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* Age: <24 hours 17.4 mg/l [48 hours] Effect: Intoxication
octamethylcyclotetrasiloxane	**Chronic - NOEC - Fresh water** Daphnia - Water flea - *Daphnia magna* Age: <24 hours 7.9 µg/l [21 days] Effect: Mortality **Chronic - NOEC** STDMETH Algae - Green algae - *Selenastrum capricornutum* 1 to 29 µg/l [96 hours] Effect: Population **Chronic - NOEC - Fresh water** Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* - Embryo Age: ≤24 hours 4.4 µg/l [33 days] Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

SECTION 12: Ecological information

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	-	4.77	Low
benzyl alcohol	0.87	-	Low
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	-	Low
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	Low
3-aminopropyltriethoxysilane	1.7	3.4	Low
2-piperazin-1-ylethylamine	-1.48	-	Low
Orange, sweet, ext.	2.78 to 4.88	1.502 to 2.597	Low
m-phenylenebis (methylamine)	0.18	2.69	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logKoc	Koc
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2	98.3852
benzyl alcohol	1.1	12.6442
2,4,6-tris(dimethylaminomethyl)phenol	2.7	525.589
3-aminopropyltriethoxysilane	2.5	282.955
benzyl alcohol	1.1	12.6442
2-piperazin-1-ylethylamine	1.5	33.6814
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2	98.3852
m-phenylenebis(methylamine)	1.7	46.5812
octamethylcyclotetrasiloxane	3.5	3064.9

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
crystalline silica, respirable powder	No	No	No	No	No	No	No
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino] butyl-terminated	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	No	No	No	No	No	No	No
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
2,4,6-tris (dimethylaminomethyl)	No	No	No	No	No	No	No

SECTION 12: Ecological information

phenol							
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	No	No	No	No	No	No	No
3-aminopropyltriethoxysilane	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
2-piperazin-1-ylethylamine	No	No	No	No	No	No	No
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
Orange, sweet, ext.	No	No	No	No	No	No	No
m-phenylenebis (methylamine)	No	No	No	No	No	No	No
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	No	No	No	No	No	No	No
octamethylcyclotetrasiloxane	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
crystalline silica, respirable powder	No	No	No	No	No	No	No
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino] butyl-terminated	No	N/A	N/A	No	N/A	N/A	N/A
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	No	N/A	No	No	No	N/A	No
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	N/A	N/A	No	N/A	N/A	N/A
benzyl alcohol	No	N/A	N/A	No	N/A	N/A	N/A
2,4,6-tris (dimethylaminomethyl) phenol	No	N/A	N/A	No	N/A	N/A	N/A
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	No	N/A	N/A	No	N/A	N/A	N/A
3-aminopropyltriethoxysilane	No	N/A	No	No	No	N/A	No
benzyl alcohol	No	N/A	N/A	No	N/A	N/A	N/A
2-piperazin-1-ylethylamine	N/A	N/A	N/A	Yes	N/A	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	N/A	N/A	No	N/A	N/A	N/A
Orange, sweet, ext.	No	N/A	No	No	No	N/A	No
m-phenylenebis (methylamine)	No	N/A	No	No	No	N/A	No
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	No	N/A	N/A	No	N/A	N/A	N/A
octamethylcyclotetrasiloxane	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 12: Ecological information

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
crystalline silica, respirable powder	No	No	No	No	No	No	No
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino] butyl-terminated	No	No	No	No	No	No	No
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	No	No	No	No	No	No	No
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
2,4,6-tris (dimethylaminomethyl) phenol	No	No	No	No	No	No	No
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	No	No	No	No	No	No	No
3-aminopropyltriethoxysilane	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
2-piperazin-1-ylethylamine	No	No	No	No	No	No	No
3-aminomethyl-3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
Orange, sweet, ext.	No	No	No	No	No	No	No
m-phenylenebis (methylamine)	No	No	No	No	No	No	No
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	No	No	No	No	No	No	No
octamethylcyclotetrasiloxane	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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 minimized 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

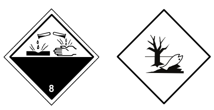
Packaging

Methods of disposal : The generation of waste should be avoided or minimized 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)	
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	CORROSIVE LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	CORROSIVE LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	CORROSIVE LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis (methylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3 Transport hazard class(es)	8 	8 	8 	8 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

SECTION 14: Transport information

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code (E)

ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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 available.

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 authorization

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
PBT	octamethylcyclotetrasiloxane	Recommended	10th recommendation	4/14/2021
vPvB	octamethylcyclotetrasiloxane	Recommended	10th recommendation	4/14/2021

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

Product/ingredient name	%	Designation [Usage]
WEICON Fire Safe Epoxy Hardener	≥90	3

Labeling : Not applicable.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Not applicable.

Total percentage of synthetic polymer microparticles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

SECTION 15: Regulatory information

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
E2

Annex VIIA - Labelling for Contents

Identification	Concentration
BENZYL ALCOHOL	less than 5%

VOC content : 3.12 %

VOC (g/L) : 43.61

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Quartz (SiO2)	DFG MAC-values list	Silica, crystalline (respirable fraction)	K1	-
titanium dioxide	DFG MAC-values list	Titanium dioxide (inhalable fraction)	K3	-

Storage class (TRGS 510) : 6.1D

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
E2	1.3.2

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	71.9
5.2.5	Organic substances	27.7
5.2.5 [I]	Organic substances	4.9

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

SECTION 15: Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	**Russian Federation inventory**: All components are listed or exempted.
Japan	:	**Japan inventory (CSCL)**: Not determined. **Japan inventory (ISHL)**: Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	All components are listed or exempted.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

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

SECTION 16: Other information

Classification	Justification
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

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