

Date of issue

3 February 2026

Version 3.07

**Section 1. Product and company identification**

**Product name** : SIGMAFAST 278 BASE Z N0070CO2139  
**Product code** : 00-10020CO  
**Other means of identification** : Not available.  
**Product type** : Liquid.

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

| Identified uses                              |        |
|----------------------------------------------|--------|
| Coating. Paints. Painting-related materials. |        |
| Uses advised against                         | Reason |
| Not applicable.                              |        |

**Supplier's details:**

**Supplier** : PPG INDUSTRIES CHILE S.A.  
Puerto Madero 9710, Of. 23  
Pudahuel - Chile  
Teléfono: +56 (2) 2571 0750  
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**Email address:** : HazComLatam@ppg.com

**Emergency telephone number** : +56 (2) 2777 1994 (RITA CHILE)

**Section 2. Hazards identification**

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (dermal) - Category 5  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
AQUATIC HAZARD (ACUTE) - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 2

**Target organs** : Contains material which causes damage to the following organs: blood, liver, heart, spleen, brain, bone marrow.  
Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

## Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 66%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 42%

### GHS label elements

#### Hazard pictograms

:



#### Signal word

: Danger

#### Hazard statements

: Flammable liquid and vapor.  
May be harmful in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause cancer.  
May damage fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling.

#### Response

: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### Storage

: Not applicable.

#### Disposal

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

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

#### Other means of identification

: Not available.

### CAS number/other identifiers

#### CAS number

: Not applicable.

## Section 3. Composition/information on ingredients

| Ingredient name                                         | %          | CAS number |
|---------------------------------------------------------|------------|------------|
| crystalline silica, respirable powder (<10 microns)     | 15 - <20   | 14808-60-7 |
| crystalline silica, non-respirable powder (>10 microns) | 15 - <20   | 14808-60-7 |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                 | 15 - <20   | 1675-54-3  |
| Talc, not containing asbestiform fibres                 | 5 - <7     | 14807-96-6 |
| m-xylene                                                | 3 - <5     | 108-38-3   |
| Phenol, styrenated                                      | 1 - <2     | 61788-44-1 |
| 1-methoxy-2-propanol                                    | 1 - <2     | 107-98-2   |
| benzyl alcohol                                          | 1 - <2     | 100-51-6   |
| o-xylene                                                | 1 - <2     | 95-47-6    |
| p-xylene                                                | 1 - <2     | 106-42-3   |
| aluminium oxide                                         | 1 - <2     | 1344-28-1  |
| Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-      | 1 - <2     | 55349-01-4 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs.          | 0.5 - <1   | 68609-97-2 |
| trizinc bis(orthophosphate)                             | 0.5 - <1   | 7779-90-0  |
| Fatty acids, C14-18 and C16-18-unsatd., maleated        | 0.2 - <0.5 | 85711-46-2 |
| maleic anhydride                                        | 0 - <0.1   | 108-31-6   |

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- 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 recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed.
- Specific treatments** : The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
- 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.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

## Section 4. First aid measures

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 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.

**Specific hazards arising from the chemical** : Flammable liquid and vapor. 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 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.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
metal oxide/oxides

**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. 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.

## Section 6. Accidental release measures

### 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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".

**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.

### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

- 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 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

- Precautions for safe handling** : 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor 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.
- Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 50°C (122°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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

## Section 8. Exposure controls/personal protection

crystalline silica, respirable powder (<10 microns)

**Ministry of Health (Chile, 2/2018)**

TWA 8 hours: 0.08 mg/m<sup>3</sup>. Form: Respirable fraction.

crystalline silica, non-respirable powder (>10 microns)

**Ministry of Health (Chile, 2/2018)**

TWA 8 hours: 0.08 mg/m<sup>3</sup>. Form: Respirable fraction.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Not regulated.

Talc , not containing asbestiform fibres

**Ministry of Health (Chile, 2/2018)**

TWA 8 hours: 1.75 mg/m<sup>3</sup>. Form: Respirable fraction.

m-xylene

**Ministry of Health (Chile, 2/2018) [Xileno]**

TWA 8 hours: 380 mg/m<sup>3</sup>.

TWA 8 hours: 87 ppm.

STEL 15 minutes: 150 ppm.

STEL 15 minutes: 651 mg/m<sup>3</sup>.

Phenol, styrenated

Not regulated.

1-methoxy-2-propanol

**ACGIH TLV (United States, 1/2025)**

TWA 8 hours: 50 ppm.

TWA 8 hours: 184 mg/m<sup>3</sup>.

STEL 15 minutes: 100 ppm.

STEL 15 minutes: 369 mg/m<sup>3</sup>.

benzyl alcohol

Not regulated.

o-xylene

**Ministry of Health (Chile, 2/2018) [Xileno]**

TWA 8 hours: 380 mg/m<sup>3</sup>.

TWA 8 hours: 87 ppm.

STEL 15 minutes: 150 ppm.

STEL 15 minutes: 651 mg/m<sup>3</sup>.

p-xylene

**Ministry of Health (Chile, 2/2018) [Xileno]**

TWA 8 hours: 380 mg/m<sup>3</sup>.

TWA 8 hours: 87 ppm.

STEL 15 minutes: 150 ppm.

STEL 15 minutes: 651 mg/m<sup>3</sup>.

aluminium oxide

**Ministry of Health (Chile, 2/2018)**

**[Aluminio (humos de soldadura)]**

TWA 8 hours: 4.4 mg/m<sup>3</sup> (expressed as Al).

Form: Welding fumes.

Not regulated.

Not regulated.

Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-

trizinc bis(orthophosphate)

maleic anhydride

**ACGIH TLV (United States, 1/2025)** Skin

sensitizer , Inhalation sensitizer.

TWA 8 hours: 0.01 mg/m<sup>3</sup>. Form: Inhalable fraction and vapor.

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## Section 8. Exposure controls/personal protection

**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.

### 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 protection** : Chemical splash goggles.

#### 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.

**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.

**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** : 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.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid.

**Color** : Not available.

**Odor** : Not available.

**pH** : Not applicable.

**Melting point** : Not available.

**Boiling point** : >37.78°C (>100°F)

**Flash point** : Closed cup: 31.6°C (88.9°F)

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.

## Section 9. Physical and chemical properties

**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Relative density** : 1.66

| <b>Solubility(ies)</b> |  | Media      | Result      |
|------------------------|--|------------|-------------|
|                        |  | cold water | Not soluble |

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

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**Viscosity** : 40 - <60 s (ISO 6mm)

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                 | Result                | Species | Dose        | Exposure |
|-----------------------------------------|-----------------------|---------|-------------|----------|
| Bis-[4-(2,3-epoxipropoxy)phenyl]propane | LD50 Dermal           | Rabbit  | 23000 mg/kg | -        |
|                                         | LD50 Oral             | Rat     | 15000 mg/kg | -        |
| m-xylene                                | LC50 Inhalation Vapor | Rat     | 27124 mg/m³ | 4 hours  |
|                                         | LD50 Dermal           | Rabbit  | 12126 mg/kg | -        |
| Phenol, styrenated                      | LD50 Oral             | Rat     | 3523 mg/kg  | -        |
|                                         | LD50 Dermal           | Rabbit  | >5010 mg/kg | -        |
| 1-methoxy-2-propanol                    | LD50 Oral             | Rat     | 3550 mg/kg  | -        |
|                                         | LC50 Inhalation Vapor | Rat     | >7000 ppm   | 6 hours  |
|                                         | LD50 Dermal           | Rabbit  | 13 g/kg     | -        |

## Section 11. Toxicological information

|                                                |                                 |        |                         |         |
|------------------------------------------------|---------------------------------|--------|-------------------------|---------|
| benzyl alcohol                                 | LD50 Oral                       | Rat    | 5.2 g/kg                | -       |
|                                                | LC50 Inhalation Dusts and mists | Rat    | >5 mg/l                 | 4 hours |
| o-xylene                                       | LD50 Dermal                     | Rabbit | >2000 mg/kg             | -       |
|                                                | LD50 Oral                       | Rat    | 1200 mg/kg              | -       |
| p-xylene                                       | LC50 Inhalation Vapor           | Rat    | 27124 mg/m <sup>3</sup> | 4 hours |
|                                                | LD50 Dermal                     | Rabbit | 12126 mg/kg             | -       |
| aluminium oxide                                | LD50 Oral                       | Rat    | 3523 mg/kg              | -       |
|                                                | LC50 Inhalation Vapor           | Rat    | 27124 mg/m <sup>3</sup> | 4 hours |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | LD50 Dermal                     | Rabbit | 12126 mg/kg             | -       |
|                                                | LD50 Oral                       | Rat    | 3523 mg/kg              | -       |
| trizinc bis(orthophosphate)                    | LD50 Oral                       | Rat    | 7.6 mg/l                | 4 hours |
|                                                | LC50 Inhalation Dusts and mists | Rat    | >15900 mg/kg            | -       |
| maleic anhydride                               | LD50 Dermal                     | Rabbit | >4000 mg/kg             | -       |
|                                                | LD50 Oral                       | Rat    | 17100 mg/kg             | -       |
|                                                | LD50 Oral                       | Rat    | >5.7 mg/l               | 4 hours |
|                                                | LD50 Oral                       | Rat    | >5000 mg/kg             | -       |
|                                                | LD50 Dermal                     | Rabbit | 2620 mg/kg              | -       |
|                                                | LD50 Oral                       | Rat    | 400 mg/kg               | -       |

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

### Irritation/Corrosion

| Product/ingredient name                 | Result                             | Species | Score | Exposure        | Observation |
|-----------------------------------------|------------------------------------|---------|-------|-----------------|-------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Eyes - Mild irritant               | Rabbit  | -     | 24 hours        | -           |
|                                         | Eyes - Redness of the conjunctivae | Rabbit  | 0.4   | 24 hours        | -           |
|                                         | Skin - Edema                       | Rabbit  | 0.5   | 4 hours         | -           |
|                                         | Skin - Erythema/Eschar             | Rabbit  | 0.8   | 4 hours         | -           |
|                                         | Skin - Mild irritant               | Rabbit  | -     | 4 hours         | -           |
| m-xylene                                | Skin - Moderate irritant           | Rabbit  | -     | 24 hours 500 mg | -           |

### Conclusion/Summary

**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.

### Sensitization

| Product/ingredient name                 | Route of exposure | Species | Result      |
|-----------------------------------------|-------------------|---------|-------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | skin              | Mouse   | Sensitizing |
| Phenol, styrenated                      | skin              | Mouse   | Sensitizing |

### Conclusion/Summary

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

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

### Mutagenicity

Not available.

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

## Section 11. Toxicological information

### Carcinogenicity

Not available.

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

### Classification

| Product/ingredient name                                 | OSHA | IARC | NTP                             |
|---------------------------------------------------------|------|------|---------------------------------|
| crystalline silica, respirable powder (<10 microns)     | +    | 1    | Known to be a human carcinogen. |
| crystalline silica, non-respirable powder (>10 microns) | +    | 1    | Known to be a human carcinogen. |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                 | -    | 3    | -                               |
| Talc , not containing asbestiform fibres                | -    | 2A   | -                               |
| m-xylene                                                | -    | 3    | -                               |
| o-xylene                                                | -    | 3    | -                               |
| p-xylene                                                | -    | 3    | -                               |
| ethylbenzene                                            | -    | 2B   | -                               |

**Carcinogen Classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### Reproductive toxicity

Not available.

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

### Teratogenicity

Not available.

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

### Specific target organ toxicity (single exposure)

| Name                                             | Category   | Route of exposure | Target organs                |
|--------------------------------------------------|------------|-------------------|------------------------------|
| Talc , not containing asbestiform fibres         | Category 3 | -                 | Respiratory tract irritation |
| m-xylene                                         | Category 3 | -                 | Respiratory tract irritation |
| 1-methoxy-2-propanol                             | Category 3 | -                 | Narcotic effects             |
| o-xylene                                         | Category 3 | -                 | Respiratory tract irritation |
| p-xylene                                         | Category 3 | -                 | Respiratory tract irritation |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

| Name                                                | Category   | Route of exposure | Target organs      |
|-----------------------------------------------------|------------|-------------------|--------------------|
| crystalline silica, respirable powder (<10 microns) | Category 1 | inhalation        | -                  |
| maleic anhydride                                    | Category 1 | inhalation        | respiratory system |

**Target organs** : Contains material which causes damage to the following organs: blood, liver, heart, spleen, brain, bone marrow.  
 Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

### Aspiration hazard

| Name           | Result                         |
|----------------|--------------------------------|
| m-xylene       | ASPIRATION HAZARD - Category 1 |
| benzyl alcohol | ASPIRATION HAZARD - Category 2 |
| o-xylene       | ASPIRATION HAZARD - Category 1 |
| p-xylene       | ASPIRATION HAZARD - Category 1 |

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

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. 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 or irritation  
 watering  
 redness

**Inhalation** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 dryness  
 cracking  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

## Section 11. Toxicological information

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

#### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

#### Potential chronic health effects

Not available.

**General** : Causes damage to organs through prolonged or repeated exposure. 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** : May cause cancer. Risk of cancer depends on duration and level of exposure.

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

**Reproductive toxicity** : May damage fertility or the unborn child.

### Numerical measures of toxicity

#### 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) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
|                         |              |                |                          |                            |                                     |

|              |                                  |               |                 |         |      |
|--------------|----------------------------------|---------------|-----------------|---------|------|
| Code         | 00-10020CO                       | Date of issue | 3 February 2026 | Version | 3.07 |
| Product name | SIGMAFAST 278 BASE Z N0070CO2139 |               |                 |         |      |

## Section 11. Toxicological information

|                                                |         |        |     |      |     |
|------------------------------------------------|---------|--------|-----|------|-----|
| SIGMAFAST 278 BASE Z N0070CO2139               | 14189.7 | 4090.4 | N/A | 77.6 | N/A |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane        | 15000   | 23000  | N/A | N/A  | N/A |
| m-xylene                                       | 3523    | 1100   | N/A | 11   | N/A |
| Phenol, styrenated                             | 3550    | N/A    | N/A | N/A  | N/A |
| 1-methoxy-2-propanol                           | 5200    | 13000  | N/A | N/A  | N/A |
| benzyl alcohol                                 | 1200    | 2500   | N/A | N/A  | N/A |
| o-xylene                                       | 3523    | 1100   | N/A | 11   | N/A |
| p-xylene                                       | 3523    | 1100   | N/A | 11   | N/A |
| aluminium oxide                                | N/A     | N/A    | N/A | N/A  | 7.6 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 17100   | 2500   | N/A | N/A  | N/A |
| maleic anhydride                               | 400     | 2620   | N/A | N/A  | N/A |

Other information : Not available.

## Section 12. Ecological information

### Ecotoxicity

| Product/ingredient name                        | Result                            | Species                        | Exposure |
|------------------------------------------------|-----------------------------------|--------------------------------|----------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane        | Acute LC50 1.8 mg/l Fresh water   | Daphnia - <i>daphnia magna</i> | 48 hours |
| Phenol, styrenated                             | Chronic NOEC 0.3 mg/l             | Daphnia                        | 21 days  |
| 1-methoxy-2-propanol                           | Acute EC50 3.8 mg/l               | Daphnia                        | 48 hours |
|                                                | Acute LC50 23300 mg/l             | Daphnia                        | 48 hours |
|                                                | Acute LC50 >4500 mg/l Fresh water | Fish                           | 96 hours |
| aluminium oxide                                | Acute LC50 >100 mg/l              | Fish                           | 96 hours |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | EC50 844 mg/l                     | Algae                          | 72 hours |
|                                                | EC50 7.2 mg/l                     | Daphnia                        | 48 hours |
|                                                | LC50 >1.8 mg/l                    | Fish                           | 96 hours |
| trizinc bis(orthophosphate)                    | Acute LC50 0.112 mg/l             | Fish                           | 96 hours |
|                                                | Chronic NOEC 0.026 mg/l           | Fish                           | 30 days  |

### Persistence/degradability

| Product/ingredient name                        | Test                                                       | Result                      | Dose | Inoculum |
|------------------------------------------------|------------------------------------------------------------|-----------------------------|------|----------|
| m-xylene                                       | OECD 301F                                                  | 98 % - Readily - 28 days    | -    | -        |
| Phenol, styrenated                             | OECD 301F                                                  | 7 % - Not readily - 28 days | -    | -        |
| o-xylene                                       | OECD 301F                                                  | 94 % - Readily - 28 days    | -    | -        |
| p-xylene                                       | OECD 301F                                                  | 90 % - Readily - 28 days    | -    | -        |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | OECD Ready Biodegradability - Manometric Respirometry Test | 87 % - Readily - 28 days    | -    | -        |

## Section 12. Ecological information

| Product/ingredient name                        | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------------------------|-------------------|------------|------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane        | -                 | -          | Not readily      |
| m-xylene                                       | -                 | -          | Readily          |
| Phenol, styrenated                             | -                 | -          | Not readily      |
| benzyl alcohol                                 | -                 | -          | Readily          |
| o-xylene                                       | -                 | -          | Readily          |
| p-xylene                                       | -                 | -          | Readily          |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                        | LogP <sub>ow</sub> | BCF        | Potential |
|------------------------------------------------|--------------------|------------|-----------|
| m-xylene                                       | 3.2                | 14.79      | Low       |
| 1-methoxy-2-propanol                           | <1                 | -          | Low       |
| benzyl alcohol                                 | 0.87               | -          | Low       |
| o-xylene                                       | 3.12               | 14.13      | Low       |
| p-xylene                                       | 3.15               | 14.79      | Low       |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 3.77               | 160 to 263 | Low       |
| maleic anhydride                               | -2.78              | -          | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

|              |                                  |               |                 |         |      |
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## Section 14. Transport information

|                             | UN                                                                 | Brazil (ANTT)                                                      | IMDG                                      | IATA                                                               |
|-----------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|
| UN number                   | UN1263                                                             | UN1263                                                             | UN1263                                    | UN1263                                                             |
| UN proper shipping name     | PAINT                                                              | PAINT                                                              | PAINT                                     | PAINT                                                              |
| Transport hazard class(es)  | 3                                                                  | 3                                                                  | 3                                         | 3                                                                  |
| Packing group               | III                                                                | III                                                                | III                                       | III                                                                |
| Environmental hazards       | Yes. The environmentally hazardous substance mark is not required. | Yes. The environmentally hazardous substance mark is not required. | Yes.                                      | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable.                                                    | Not applicable.                                                    | (bis-[4-(2,3-epoxipropoxy)phenyl]propane) | Not applicable.                                                    |

### Additional information

- UN** : None identified.  
**Brazil** : None identified.  
**Risk number** : 30  
**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.

**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.

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

- Safety, health and environmental regulations specific for the product** : Decree N° 57 of 2021 – Approves the Regulation for the classification, labeling, and notification of hazardous chemical substances and mixtures.  
 Supreme Decree N° 148 of 2004 – Approves the Sanitary Regulation on the Management of Hazardous Waste.  
 Decree 40 – Amends Supreme Decree N° 298 of 1994 from the Transport and Telecommunications Ministry which "Regulates the Transportation of Dangerous Cargo on Streets and Roads".  
 Supreme Decree N° 374 of 1997 – Establishes the maximum permissible limit of lead in paints that it indicates.  
 NCh382:2021 – Dangerous Goods – Classification.

## Section 16. Other information

### History

Date of previous issue : 10/9/2025

Version : 3.07

EHS

**Key to abbreviations** :

- 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
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- UN = United Nations

**References** :

- ABNT NBR 14725: 2023 (April 2025)
- ANTT - National Land Transportation Agency

 Indicates information that has changed from previously issued version.

### 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 PPG, 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.***