

# SAFETY DATA SHEET



Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Date of issue/Date of revision 9 August 2025

Version 2

## Section 1. Chemical product and company identification

**Product code** : 00444768  
**Product name** : SIGMAGUARD 750 BINDER  
**Product name** : SIGMAGUARD 750 BINDER  
**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.  
**Use of the substance/  
mixture** : Coating.  
**Uses advised against** : Not applicable.


**Supplier's details** : PPG Coatings (Kunshan) Co., Ltd  
53 Jinyang Road, Lujia Town,  
215331 Kunshan City, Jiangsu Province, P.R. China  
Tel: 86 512 57678859 Fax: 86 512 57678857

**Emergency telephone  
number (with hours of  
operation)** : 00 86 532 83889090

## Section 2. Hazards identification

Classification of the substance or mixture according to GB 30000.1-2024 and GB 30000-2013

### Emergency overview


Liquid.  
Gray.  
Aromatic.  
 Highly flammable liquid and vapor.  
May be harmful if swallowed or in contact with skin.  
Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled.  
Suspected of causing cancer.  
May cause damage to organs.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.  
Prolonged or repeated contact may dry skin and cause irritation.

IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

**See Section 12 for environmental precautions.**

## Section 2. Hazards identification

### Classification of the substance or mixture

- :  FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 5  
ACUTE TOXICITY (dermal) - Category 5  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
AQUATIC HAZARD (ACUTE) - Category 2  
AQUATIC HAZARD (LONG-TERM) - Category 3  
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 26.4%  
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 48.6%  
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 26.4%  
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 54.1%

### GHS label elements


#### Hazard pictograms



#### Signal word


- : Danger

#### Hazard statements

- :  Highly flammable liquid and vapor.  
May be harmful if swallowed or in contact with skin.  
Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled.  
Suspected of causing cancer.  
May cause damage to organs.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

- :  Obtain special instructions before use. 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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Ground and bond container and receiving equipment. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

## Section 2. Hazards identification

Response	: IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice or attention. 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.
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	: Highly flammable liquid and vapor.
Health hazards	: May be harmful if swallowed or in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Prolonged or repeated contact may dry skin and cause irritation.

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

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

### 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.

Environmental hazards	: ☒ Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
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Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.
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## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

### CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
xylene isomers mixture	10 - <25	1330-20-7
Silicic acid, ethyl ester	10 - <25	11099-06-2
1-methoxy-2-propanol	10 - <25	107-98-2
tetraethyl silicate	1 - <10	78-10-4
ethylbenzene	1 - <10	100-41-4
crystalline silica, respirable powder (<10 microns)	1 - <10	14808-60-7
methanol	1 - <10	67-56-1
toluene	0.1 - <1	108-88-3
zinc chloride	<0.1	7646-85-7

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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled.
- Skin contact** : May be harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
- Ingestion** : May be harmful if swallowed. May cause damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.

## Section 4. First aid measures

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : 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.


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** :  Highly 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon 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.

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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). Avoid exposure - obtain special instructions before use. 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.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from 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

Ingredient name	Exposure limits
Xylene	<b>GBZ 2.1 (China, 7/2024) [Xylene]</b> PC-TWA 8 hours: 50 mg/m <sup>3</sup> . PC-STEL 15 minutes: 100 mg/m <sup>3</sup> .
1-methoxy-2-propanol	<b>ACGIH TLV (United States, 1/2024)</b> 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> .
tetraethyl silicate	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 10 ppm. TWA 8 hours: 85 mg/m <sup>3</sup> .
ethylbenzene	<b>GBZ 2.1 (China, 7/2024)</b> PC-TWA 8 hours: 100 mg/m <sup>3</sup> . PC-STEL 15 minutes: 150 mg/m <sup>3</sup> .
crystalline silica, respirable powder (<10 microns)	<b>GBZ 2.1 (China, 7/2024)</b> PC-TWA 8 hours: 0.7 mg/m <sup>3</sup> . Form: respirable dust, 10% ≤ free SiO <sub>2</sub> ≤ 50%. PC-TWA 8 hours: 0.3 mg/m <sup>3</sup> . Form: respirable dust, 50% < free SiO <sub>2</sub> ≤ 80%. PC-TWA 8 hours: 0.2 mg/m <sup>3</sup> . Form: respirable dust, free SiO <sub>2</sub> > 80%.
methanol	<b>GBZ 2.1 (China, 7/2024)</b> Absorbed through skin. PC-TWA 8 hours: 25 mg/m <sup>3</sup> . PC-STEL 15 minutes: 50 mg/m <sup>3</sup> .
toluene	<b>GBZ 2.1 (China, 7/2024)</b> Absorbed through skin. PC-TWA 8 hours: 50 mg/m <sup>3</sup> . PC-STEL 15 minutes: 100 mg/m <sup>3</sup> .
zinc chloride	<b>GBZ 2.1 (China, 7/2024)</b> PC-TWA 8 hours: 1 mg/m <sup>3</sup> . Form: fume. PC-STEL 15 minutes: 2 mg/m <sup>3</sup> . Form: fume.

**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.



## Section 8. Exposure controls/personal protection

- 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.
- 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. 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** : For prolonged or repeated handling, use the following type of gloves:
- Recommended: polyvinyl alcohol (PVA), Viton®, butyl rubber  
May be used: nitrile 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	: Gray.
Odor	: Aromatic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 12.4°C (54.3°F)
Lower and upper explosive (flammable) limits	: Not available.
Relative density	: 1.14

### Solubility(ies)

Media	Result
cold water	Not soluble

### Viscosity

: Dynamic (room temperature): Not available.
: Kinematic (room temperature): Not available.
: Kinematic (40°C): >21 mm <sup>2</sup> /s

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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Chemical stability	: The product is stable.
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Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
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Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
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Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides
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## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Dose
☑ xylene isomers mixture	Rat - Oral - LD50	4.3 g/kg
-	Rabbit - Dermal - LD50	1.7 g/kg
Silicic acid, ethyl ester	Rat - Oral - LD50	6270 mg/kg
1-methoxy-2-propanol	Rabbit - Dermal - LD50	13 g/kg
-	Rat - Oral - LD50	5.2 g/kg
-	Rat - Inhalation - LC50 Vapor	>7000 ppm [6 hours]
tetraethyl silicate	Rat - Oral - LD50	6270 mg/kg
-	Rabbit - Dermal - LD50	5.878 g/kg
-	Rat - Inhalation - LC50 Dusts and	10 to 16 mg/l [4 hours]

## Section 11. Toxicological information

ethylbenzene	mists	
-	Rat - Oral - LD50	3.5 g/kg
-	Rabbit - Dermal - LD50	17.8 g/kg
methanol	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
-	Rabbit - Dermal - LD50	15800 mg/kg
-	Rat - Oral - LD50	5600 mg/kg
toluene	Rat - Inhalation - LC50 Vapor	64000 ppm [4 hours]
-	Rat - Oral - LD50	5580 mg/kg
zinc chloride	Rat - Inhalation - LC50 Vapor	49 g/m <sup>3</sup> [4 hours]
	Rat - Oral - LD50	0.35 g/kg

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

### Skin corrosion/irritation

Product/ingredient name	Species	Dose	Score
☑ xylene isomers mixture	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours	-

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

### Serious eye damage/eye irritation

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

### Respiratory corrosion/irritation

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

### Sensitization

#### Skin

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

#### Respiratory

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

### Mutagenicity

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

### Carcinogenicity

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

### Classification

Product/ingredient name	IARC
☑ xylene isomers mixture	3
ethylbenzene	2B
crystalline silica, respirable powder (<10 microns)	1
toluene	3

### Reproductive toxicity

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

### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Product/ingredient name	Result
1-methoxy-2-propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
tetraethyl silicate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
methanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
toluene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
zinc chloride	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
crystalline silica, respirable powder (<10 microns)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1
toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### Aspiration hazard

Product/ingredient name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

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

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled.
- Skin contact** : May be harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
- Ingestion** : May be harmful if swallowed. May cause damage to organs following a single exposure if swallowed.

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

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : No specific data.

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

#### Short term exposure

## Section 11. Toxicological information

**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

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

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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

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

### 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)
SIGMAGUARD 750 BINDER	4279.3	3046.1	N/A	27.9	4.2
xylene isomers mixture	4300	1700	N/A	11	1.5
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
methanol	100	300	64000	3	N/A
toluene	5580	N/A	N/A	49	N/A
zinc chloride	350	N/A	N/A	N/A	N/A

#### Other information :

Prolonged or repeated contact may dry skin and cause irritation. Contains . methanol . Cannot be made nonpoisonous. May be fatal or cause blindness if swallowed. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
1-methoxypropan-2-ol	Acute - LC50 - Fresh water	Fish - Goldfish	>4500 mg/l [96 hours]
ethylbenzene	Acute - LC50	Daphnia - Daphnia	23300 mg/l [48 hours]
	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]
	Chronic - NOEC - Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	1 mg/l
methanol	Acute - LC50 - Fresh water	Fish - Trout	13 mg/l [96 hours]
toluene	EC50	Daphnia	3.78 mg/l [48 hours]
	LC50	Fish	5.5 mg/l [96 hours]
zinc chloride	Acute - LC50	Fish	0.4 to 2.2 mg/l [96 hours]
	Chronic - EC10 - Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	58 µg/l [21 days]
	Acute - EC50 - Fresh water	Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase	22 µg/l [72 hours]
	Chronic - EC10 - Fresh water	Algae - Green algae - <i>Raphidocelis subcapitata</i> - Exponential growth phase	10 µg/l [72 hours]
	Acute - LC50 - Fresh water	Daphnia - Water flea - <i>Daphnia galeata</i> - Neonate	0.14 mg/l [48 hours]

**Conclusion/Summary** : Not available.

### Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
ethylbenzene	-	79% [10 days] - Readily	

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene isomers mixture	-	-	Readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene isomers mixture	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
tetraethyl silicate	3.18	-	Low
ethylbenzene	3.6	79.43	Low
methanol	-0.77	-	Low
toluene	2.73	90	Low

### Mobility in soil

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

## Section 12. Ecological information

**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.

## Section 14. Transport information

	China	UN	IMDG	IATA
<b>UN number</b>	UN1263	UN1263	UN1263	UN1263
<b>UN proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>Transport hazard class(es)</b>	3	3	3	3
<b>Packing group</b>	II	II	II	II
<b>Environmental hazards</b>	No.	No.	No.	No.
<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.

### Additional information

**CN** : None identified.

**UN** : None identified.

**IMDG** : None identified.

**IATA** : None identified.

**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

**China inventory (IECSC)** : All components are listed or exempted.

**References** :

- Production Safety Law of the People's Republic of China
- Code of Occupational Disease Prevention of the People's Republic of China
- Environmental Protection Law of the People's Republic of China
- Fire Control Law of the People's Republic of China
- Regulations on the Control over Safety of Dangerous Chemicals
- Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1)
- Specification for classification and labelling of chemicals according to Part 1: General rules (GB 30000.1-2024)
- Safety data sheet for chemical products - Content and order of sections (GB/T16483)
- Guidance on the compilation of safety data sheet for chemical products (GB/T17519)
- General rule for preparation of precautionary label for chemicals (GB15258)
- Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

## Section 16. Other information

### History

**Date of issue/Date of revision** : 9 August 2025

**Version** : 2

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**First issue date** : 7/21/2021

**Prepared by** : 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



Indicates information that has changed from previously issued version.

### Notice to reader



## Section 16. Other information

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.