



Date of issue 23 September 2026

Version 3.02

Section 1. Product and company identification

Product name : PITT-CHAR XP HARDENER BLACK SINGLE FEED
 Product code : 00375571
 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 Industrial do Brasil – Tintas e Vernizes Ltda
 Via Anhanguera KM 106, Bairro Sao Judas Tadeu
 Sumare / SP, Brasil
 55 19 2103-6000 (Recepção e Portaria)

Email address: : fds@ppg.com

Emergency telephone number : 0800 707 1767 / 0800 707 7022 – Empresa Ambipar response (24hs)
 0800 014 8110 / (011)2661-8571 – CEATOX - Centro de Assistência Toxicológica (atendimento 24hs)

Section 2. Hazards identification

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 5
 ACUTE TOXICITY (dermal) - Category 4
 SKIN CORROSION - Category 1C
 SERIOUS EYE DAMAGE - Category 1
 SKIN SENSITIZATION - Category 1
 CARCINOGENICITY - Category 1A
 TOXIC TO REPRODUCTION - Category 2
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Target organs : Contains material which may cause damage to the following organs: kidneys, liver, bladder, brain, upper respiratory tract, skin, eyes.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 68.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 88.9%

Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 61%

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: May be harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure. (urinary system)

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. Do not breathe vapor.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. 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

: 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

: Causes digestive tract burns.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number/other identifiers	Classification
Polyaminoamide	≥30 - ≤60	68082-29-1	SERIOUS EYE DAMAGE - Category 1
melamine	≥20 - ≤24	108-78-1	ACUTE TOXICITY (oral) - Category 5 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
4,4'-Isopropylidenediphenol, ethoxylated	≥5 - ≤10	32492-61-8 (EO> 4.5 moles)	AQUATIC HAZARD (LONG-TERM) - Category 3
2,4,6-tris(dimethylaminomethyl) phenol	≥3 - ≤6.8	90-72-2	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
3,6-diazaoctanethylenediamin	≥1 - ≤3	112-24-3	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3
glass, oxide, chemicals	≥1 - ≤3	65997-17-3	Not classified as hazardous according to ABNT NBR 14725
crystalline silica, non-respirable powder (>10 microns)	≤1	14808-60-7	CARCINOGENICITY - Category 1A
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	<1	123-26-2	ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
crystalline silica, respirable powder (<10 microns)	≤0.1	14808-60-7	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. |
| Inhalation | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| Skin contact | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use 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 damage. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction. |
| Ingestion | : May be harmful if swallowed. Corrosive to the digestive tract. Causes burns. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- | | |
|--|---|
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides |

Section 5. Fire-fighting measures

- 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.

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. Do not breathe vapor. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- 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).

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 (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. 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.

Section 7. Handling and storage

Advice on general occupational hygiene

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

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 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
glass, oxide, chemicals	ACGIH TLV (United States)
	TWA: 10 mg/m ³ . Form: Total dust.
	TWA: 3 mg/m ³ . Form: Respirable.
	TWA: 1. Form: Continuous filament glass fibers.
	TWA: 5 mg/m ³ (Inhalable). Form: Continuous filament glass fibers.
crystalline silica, non-respirable powder (>10 microns)	ACGIH TLV (United States, 1/2026) [Silica, crystalline]
	TWA 8 hours: 0.025 mg/m ³ . Form: Respirable fraction.
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	ACGIH TLV (United States)
	TWA: 10 mg/m ³ . Form: Total dust.
	TWA: 3 mg/m ³ . Form: Respirable.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2026) [Silica, crystalline]
	TWA 8 hours: 0.025 mg/m ³ . Form: Respirable fraction.

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.

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

Section 8. Exposure controls/personal protection

- 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 and face shield.
- 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** : nitrile neoprene
- 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** : 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** : Black.
- Odor** : Characteristic.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : Closed cup: 93.33°C (200°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 1.14

Section 9. Physical and chemical properties

Solubility(ies)	:	<table><tr><th>Media</th><th>Result</th></tr><tr><td>cold water</td><td>Not soluble</td></tr></table>	Media	Result	cold water	Not soluble
Media	Result					
cold water	Not soluble					
Water Solubility at room temperature	:	13.7 g/l				
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 mm ² /s (>21 cSt)				
<u>Particle characteristics</u>						
Median particle size	:	Not applicable.				

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

Section 11. Toxicological information

Information on toxicological effects

Harmful in contact with skin.
 May be harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May cause cancer.
 Suspected of damaging fertility.
 May cause damage to organs through prolonged or repeated exposure. (urinary system)

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Dose
Polyaminoamide melamine	Not available Rat - Oral - LD50 Rat - Inhalation - LC50 Dusts and mists	Not available 3161 mg/kg >5190 mg/m ³ [4 hours]
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Rat - Dermal - LD50 Rat - Oral - LD50	1280 mg/kg 1200 mg/kg
3,6-diazaoctanethylenediamin	Rabbit - Dermal - LD50 Rat - Oral - LD50	1465 mg/kg 1716 mg/kg
glass, oxide, chemicals	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Rat - Oral - LD50 Rat - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	>2000 mg/kg >2000 mg/kg >5.11 mg/l [4 hours]
crystalline silica, respirable powder (<10 microns)	Not available	Not available

Conclusion/Summary : Harmful in contact with skin.
May be harmful if swallowed.

Irritation/Corrosion

Product/ingredient name	Species	Dose	Score
Polyaminoamide melamine	Not available Not available	Not available Not available	Not available Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available	Not available	Not available
3,6-diazaoctanethylenediamin	Not available	Not available	Not available
glass, oxide, chemicals	Not available	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available	Not available

Conclusion/Summary

Skin : Causes severe burns.
Eyes : Causes serious eye damage.
Respiratory : Based on available data, the classification criteria are not met.

Sensitization

Section 11. Toxicological information

Product/ingredient name	Species	Result
Polyaminoamide	Not available	Not available
melamine	Not available	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available	Not available
3,6-diazaoctanethylenediamin	Guinea pig - skin	Sensitizing
	OECD 406	
glass, oxide, chemicals	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available

Conclusion/Summary

- Skin** : May cause an allergic skin reaction.
- Respiratory** : Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Species	Result
Polyaminoamide	Not available	Not available
melamine	Not available	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available	Not available
3,6-diazaoctanethylenediamin	Not available	Not available
glass, oxide, chemicals	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Carcinogenicity

Product/ingredient name	Species	Result
Polyaminoamide	Not available	Not available
melamine	Not available	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available	Not available
3,6-diazaoctanethylenediamin	Not available	Not available
glass, oxide, chemicals	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available

- Conclusion/Summary** : May cause cancer.

Section 11. Toxicological information

Classification

Product/ingredient name	OSHA	IARC	NTP
melamine	-	2B	-
glass, oxide, chemicals	-	3	-
crystalline silica, non-respirable powder (>10 microns)	+	1	Known to be a human carcinogen.
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.

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

Product/ingredient name	Species	Result
Polyaminoamide	Not available	Not available
melamine	Not available	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available	Not available
3,6-diazaoctanethylenediamin	Not available	Not available
glass, oxide, chemicals	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Polyaminoamide	None.	None.	None.
melamine	None.	None.	None.
4,4'-Isopropylidenediphenol, ethoxylated	None.	None.	None.
2,4,6-tris(dimethylaminomethyl)phenol	None.	None.	None.
3,6-diazaoctanethylenediamin	None.	None.	None.
glass, oxide, chemicals	None.	None.	None.
crystalline silica, non-respirable powder (>10 microns)	None.	None.	None.
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	None.	None.	None.
crystalline silica, respirable powder (<10 microns)	None.	None.	None.

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Polyaminoamide	None.	None.	None.
melamine	Category 2	-	urinary system
4,4'-Isopropylidenediphenol, ethoxylated	None.	None.	None.
2,4,6-tris(dimethylaminomethyl)phenol	None.	None.	None.
3,6-diazaoctanethylenediamin	None.	None.	None.
glass, oxide, chemicals	None.	None.	None.
crystalline silica, non-respirable powder (>10 microns)	None.	None.	None.
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	None.	None.	None.
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

Conclusion/Summary : May cause damage to organs through prolonged or repeated exposure. (urinary system)

Target organs : Contains material which may cause damage to the following organs: kidneys, liver, bladder, brain, upper respiratory tract, skin, eyes.

Aspiration hazard

Name	Result
Polyaminoamide	None.
melamine	None.
4,4'-Isopropylidenediphenol, ethoxylated	None.
2,4,6-tris(dimethylaminomethyl)phenol	None.
3,6-diazaoctanethylenediamin	None.
glass, oxide, chemicals	None.
crystalline silica, non-respirable powder (>10 microns)	None.
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	None.
crystalline silica, respirable powder (<10 microns)	None.

Conclusion/Summary : Based on available data, the classification criteria are not met.

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. Harmful in contact with skin. May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Section 11. Toxicological information

Skin contact : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

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

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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

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

Section 11. Toxicological information

Product/ingredient name	Result
Polyaminoamide	Not available
melamine	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available
2,4,6-tris(dimethylaminomethyl)phenol	Not available
3,6-diazaoctanethylenediamin	Not available
glass, oxide, chemicals	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	Not available
crystalline silica, respirable powder (<10 microns)	Not available

- General** : May cause damage to organs through prolonged or repeated exposure. 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** : Suspected of damaging 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)
PITT-CHAR XP HARDENER BLACK SINGLE FEED	2491.6	1812.7	Not available	Not available	Not available
Polyaminoamide	Not available	Not available	Not available	Not available	Not available
melamine	3161	Not available	Not available	Not available	Not available
4,4'-Isopropylidenediphenol, ethoxylated	Not available	Not available	Not available	Not available	Not available
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	Not available	Not available	Not available
3,6-diazaoctanethylenediamin	1716	1465	Not available	Not available	Not available
glass, oxide, chemicals	Not available	Not available	Not available	Not available	Not available
crystalline silica, non-respirable powder (>10 microns)	Not available	Not available	Not available	Not available	Not available
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	2500	2500	Not available	Not available	Not available
crystalline silica, respirable powder (<10 microns)	Not available	Not available	Not available	Not available	Not available

Other information : Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
melamine	Acute - EC50	Daphnia	200 mg/l [48 hours]
2,4,6-tris (dimethylaminomethyl)phenol	Acute - LC50	Daphnia	>100 mg/l [48 hours]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	Acute - LC50 Acute - EC50	Fish Daphnia - <i>Daphnia magna</i>	>100 mg/l [96 hours] 94 mg/l [48 hours]
	Acute - EC50	Algae - <i>Pseudokirchneriella subcapitata</i>	29 to 43 mg/l [72 hours]

Conclusion/Summary : Not available.

Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
2,4,6-tris (dimethylaminomethyl)phenol	OECD [Ready Biodegradability - Closed Bottle Test]	4% [28 days] - Not readily	-
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	-	63% [28 days]	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,4,6-tris (dimethylaminomethyl)phenol	-	-	Not readily
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Polyaminoamide	None.	None.	None.
melamine	-1.22	3.8	Low
4,4'-Isopropylidenediphenol, ethoxylated	None.	None.	None.
2,4,6-tris (dimethylaminomethyl)phenol	0.219	None.	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	None.	Low
glass, oxide, chemicals	None.	None.	None.
crystalline silica, non-respirable powder (>10 microns)	None.	None.	None.

Section 12. Ecological information

N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	>6	None.	High
crystalline silica, respirable powder (<10 microns)	None.	None.	None.

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

Section 14. Transport information

	Brazil (ANTT)	IMDG	IATA
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Brazil : None identified.
Risk number : 80
IMDG : None identified.
IATA : None identified.

Section 14. Transport information

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

References : ABNT NBR 14725: 2023 (April 2025)

Section 16. Other information

History

Date of previous issue : 7/3/2025

Version : 3.02

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.

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.