## SAFETY DATA SHEET



Date of issue

7 November 2021

Version 9

## Section 1. Product and company identification

Product name : NOVAGUARD 890 HARDENER GREEN

Product code : 00269263

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: : HazComLatam@ppg.com

**Emergency telephone number** 

0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

### Section 2. Hazards identification

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 3

ACUTE TOXICITY (definal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3

SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ASPIRATION HAZARD - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 2

Target organs : Contains material which causes damage to the following organs: blood, liver, heart,

brain.

Contains material which may cause damage to the following organs: kidneys, the nervous system, upper respiratory tract, skin, eyes, adrenal, central nervous system

(CNS).

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#### Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 3.5%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1.9%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 12.8%

**GHS** label elements

**Hazard pictograms** 









Signal word : Danger

: Harmful if swallowed. **Hazard statements** 

May be harmful if swallowed and enters airways.

Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** 

: Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated clothing before reuse. 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. 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 : None known.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

**CAS** number/other identifiers

**CAS** number : Not applicable.

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| Product na | me NOVAGUARD 890 HARI                             | DENER GREEN   |                 |         |   |  |
| Section    | Section 3. Composition/information on ingredients |               |                 |         |   |  |

| Ingredient name  | %                      | CAS number            |
|--|------------------------|-----------------------|
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) benzyl alcohol                    | 60 - 100<br>12.5 - <15 | 6864-37-5<br>100-51-6 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 2,4,6-tris(dimethylaminomethyl)phenol | 3 - <5<br>1 - <2       | 1760-24-3<br>90-72-2  |

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.

: 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 pe

: 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** : Toxic if inhaled.

**Skin contact**: Causes severe burns. Toxic in contact with skin. May cause an allergic skin

reaction

**Ingestion**: Harmful if swallowed. May be harmful if swallowed and enters airways.

See toxicological information (Section 11)

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## 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. 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.

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

Formaldehyde.

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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

**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

**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

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### Section 6. Accidental release measures

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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

# 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 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

None.

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to 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.

## **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 and face shield.

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## Section 8. Exposure controls/personal protection

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

estimated.

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 : Green.

Odor : Amine-like. [Strong]

pH : Not applicable.Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Open cup: 100°C (212°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.97

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** : 275°C (527°F) **Decomposition temperature** : Not available.

Viscosity : Kinematic (40°C (104°F)): <14 mm²/s (<14 cSt)

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## 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 Formaldehyde. metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                                  | Result                          | Species       | Dose                    | Exposure |
|--|---------------------------------|---------------|-------------------------|----------|
| 2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine) | LC50 Inhalation Dusts and mists | Rat           | 420 mg/m³               | 4 hours  |
|  | LD50 Dermal<br>LD50 Oral        | Rabbit<br>Rat | >0.2 g/kg<br>>0.32 g/kg | -        |
| benzyl alcohol   | LC50 Inhalation Dusts and mists | Rat           | >4178 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal<br>LD50 Oral        | Rabbit<br>Rat | 2000 mg/kg<br>1.23 g/kg | -        |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine            | LD50 Oral                       | Rat           | 2413 mg/kg              | -        |
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol            | LD50 Dermal                     | Rabbit        | 1.28 g/kg               | -        |
| prierioi   | LD50 Dermal                     | Rat           | 1280 mg/kg              | -        |
|  | LD50 Oral                       | Rat           | 1200 mg/kg              | -        |

## Conclusion/Summary Irritation/Corrosion

: There are no data available on the mixture itself.

| Product/ingredient name                                | Result                  | Species | Score | Exposure | Observation |
|--|-------------------------|---------|-------|----------|-------------|
| <b>2</b> ∕,4,6-tris<br>(dimethylaminomethyl)<br>phenol | Skin - Visible necrosis | Rabbit  | -     | 4 hours  | 7 days      |

#### **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** 

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## **Section 11. Toxicological information**

| 3   | Route of exposure | Species    | Result      |
|---|-------------------|------------|-------------|
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol | skin              | Guinea pig | 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.

Carcinogenicity

Not available.

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

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)

Not available.

#### Specific target organ toxicity (repeated exposure)

| Name   | 3.7        | Route of exposure | Target organs |
|--|------------|-------------------|---------------|
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | Category 2 | -                 | -             |

#### **Target organs**

: Contains material which causes damage to the following organs: blood, liver, heart, brain.

Contains material which may cause damage to the following organs: kidneys, the nervous system, upper respiratory tract, skin, eyes, adrenal, central nervous system (CNS).

#### **Aspiration hazard**

| Name           | Result                         |
|----------------|--------------------------------|
| benzyl alcohol | ASPIRATION HAZARD - Category 2 |

Information on the likely routes of exposure

: Not available.

Potential acute health effects

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

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## Section 11. Toxicological information

Inhalation : Toxic if inhaled.

Skin contact : Causes severe burns. Toxic in contact with skin. May cause an allergic skin

reaction.

**Ingestion**: Harmful if swallowed. May be harmful if swallowed and enters airways.

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

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

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

stomach pains nausea or vomiting

#### 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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.

foots

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.

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## Section 11. Toxicological information

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 : No known significant effects or critical hazards.
 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/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| NOVAGUARD 890 HARDENER GREEN                     | 578.3            | 365.4             | N/A                            | 317.5                            | 0.59   |
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | 500              | 300               | N/A                            | N/A                              | 0.5  |
| benzyl alcohol                                   | 1230             | 2000              | N/A                            | N/A                              | 1.5  |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine     | 2413             | N/A               | N/A                            | 11                               | 1.5  |
| 2,4,6-tris(dimethylaminomethyl)phenol            | 1200             | 1280              | N/A                            | N/A                              | N/A  |

Other information : Not available.

## Section 12. Ecological information

#### **Ecotoxicity**

| Product/ingredient name                | Result              | Species | Exposure |
|--|---------------------|---------|----------|
| 2,4,6-tris (dimethylaminomethyl)phenol | Acute LC50 175 mg/l | Fish    | 96 hours |

#### Persistence/degradability

| Product/ingredient name      | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| <mark>b</mark> enzyl alcohol | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name                                  | LogPow        | BCF | Potential  |
|--|---------------|-----|------------|
| 2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine) | 1.8           | -   | low        |
| benzyl alcohol<br>2,4,6-tris                             | 0.87<br>0.219 | -   | low<br>low |
| (dimethylaminomethyl)phenol                              |               |     |            |

#### **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

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

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## 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 nonrecyclable 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                   | UN2922  | UN2922  | UN2922  |
| UN proper shipping name     | CORROSIVE LIQUID, TOXIC, N.O.S.   | CORROSIVE LIQUID, TOXIC, N.O.S.   | CORROSIVE LIQUID, TOXIC, N.O.S.   |
|                             | (2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine), 2,4,6-tris<br>(dimethylaminomethyl)phenol) | (2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine), 2,4,6-tris<br>(dimethylaminomethyl)phenol) | (2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine), 2,4,6-tris<br>(dimethylaminomethyl)phenol) |
| Transport hazard class(es)  | 8 (6.1)   | 8 (6.1)   | 8 (6.1)   |
| Packing group               | II  | II  | II  |
| Environmental hazards       | Yes. The environmentally hazardous substance mark is not required.                                    | Yes.  | Yes. The environmentally hazardous substance mark is not required.                                    |
| Marine pollutant substances | Not applicable.   | (2,2'-dimethyl-4,4'-<br>methylenebis<br>(cyclohexylamine))  | Not applicable.   |

#### **Additional information**

: None identified. **Brazil** 

Risk number

**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: Not applicable.

to IMO instruments

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## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

#### Section 16. Other information

#### **History**

Date of previous issue : 6/16/2019

Version : 9
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

References : ABNT NBR 14725-4: 2014

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.

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