## **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision3 September 2023Version 10.01

| Section 1. Identification        |   |  |
|----------------------------------|---|--|
| Product name                     | : NOVAGUARD 810/810ER NEUTRAL CURE  |  |
| Product code                     | : 00396529  |  |
| Other means of<br>identification | : Not available.  |  |
| 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/<br>mixture | : Coating.  |  |
| Uses advised against             | : Not applicable.   |  |
| Supplier                         | <ul> <li>PPG Architectural Coatings Canada, Inc.<br/>1550, rue Ampère, bureau 500<br/>Boucherville (Québec) J4B 7L4<br/>Canada<br/>+1 450-655-3121</li> </ul>   |  |
|                                  | PPG Industries, Inc.<br>One PPG Place<br>Pittsburgh, PA 15272   |  |
| Emergency telephone<br>number    | : (412) 434-4515 (U.S.)<br>(514) 645-1320 (Canada)<br>SETIQ Interior de la República: 800-00-214-00 (México)<br>SETIQ Ciudad de México: (55) 5559-1588 (México) |  |
| Technical Phone Number           | : 888-977-4762  |  |

## Section 2. Hazard identification

| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4 |
|--|--|
|  | ACUTE TOXICITY (dermal) - Category 4                                   |
|  | ACUTE TOXICITY (inhalation) - Category 4                               |
|  | SKIN CORROSION - Category 1A   |
|  | SERIOUS EYE DAMAGE - Category 1  |
|  | SKIN SENSITIZATION - Category 1B                                       |
|  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract    |
|  | irritation) - Category 3   |
|  |  |

**GHS label elements** 

Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 2. Hazard identification

| Hazard pictograms              |  |
|--------------------------------|--|
| Signal word                    | : Danger   |
| Hazard statements              | <ul> <li>Flammable liquid and vapor.</li> <li>Harmful if swallowed, in contact with skin or if inhaled.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> </ul>  |
| Precautionary statements       |  |
| Prevention                     | : 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 only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.   |
| Response                       | : IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call<br>a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON<br>SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.<br>Immediately call a POISON CENTER or doctor. Wash contaminated clothing<br>before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.<br>Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or<br>attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove<br>contact lenses, if present and easy to do. Continue rinsing. Immediately call a<br>POISON CENTER or doctor.  |
| Storage                        | : Store locked up. Store in a well-ventilated place. Keep container tightly closed.  |
| Disposal                       | <ul> <li>Dispose of contents and container in accordance with all local, regional, national<br/>and international regulations.</li> </ul>  |
| Supplemental label<br>elements | : Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If<br>swallowed, methanol may be harmful or fatal or cause blindness. Repeated<br>exposure to high vapor concentrations may cause irritation of the respiratory system<br>and permanent brain and nervous system damage. Inhalation of vapor/aerosol<br>concentrations above the recommended exposure limits causes headaches,<br>drowsiness and nausea and may lead to unconsciousness or death. This product<br>either contains formaldehyde or is capable of releasing formaldehyde above 0.5<br>ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin<br>sensitizer and a respiratory sensitizer. Emits toxic fumes when heated.<br>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity:<br>1.3% (oral), 41.6% (dermal), 78.6% (inhalation) |

## Section 3. Composition/information on ingredients

| Substance/mixture Product name   | : Mixture<br>: NOVAGUARD 810/810ER NEUTRAL CURE |
|----------------------------------|---|
| Other means of<br>identification | : Not available.                                |

#### **CAS number/other identifiers**

### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 3. Composition/information on ingredients

| Ingredient name  | Synonyms  | % (w/w)  | CAS number    |
|--|---|----------|---------------|
| alc , not containing asbestiform fibres                                      | Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres   | 15 - 40  | 14807-96-6    |
| 1,3-Cyclohexanedimethanamine   | 1,3-bis(aminomethyl)cyclohexane;<br>cyclohexane-1,3-diyldimethanamine;<br>Cyclohexane, 1,3-bis(aminomethyl)-;<br>Cyclohexane-1,3-diylbis(methylamine);<br>CYCLOHEXANE, 1,3-BIS(AMINOETHYL)<br>-; Cyclohexane-1,3-diybis (methylamine);<br>1-[3-(aminomethyl)cyclohexyl]<br>methanamine  | 15 - 40  | 2579-20-6     |
| benzyl alcohol   | Benzenemethanol; .alpha<br>Hydroxytoluene; Phenylcarbinol;<br>Phenylmethanol; E 1519; α-<br>hydroxytoluene; Phenylmethyl alcohol;<br>toluenol, alpha-; (hydroxymethyl)benzene;<br>BENZENECARBINOL; alpha-<br>Hydroxytoluene   | 10 - 30* | 100-51-6      |
| Formaldehyde, polymer with N,N-<br>dimethyl-1,3-propanediamine and<br>phenol | Formaldehyde, polymer with N1,N1-<br>dimethyl-1,3-propanediamine and phenol;<br>Formaldehyde polymer with N,N-dimethyl-<br>1,3-propanediamine and phenol  | 3 - 7*   | 445498-00-0   |
| N-(3-(trimethoxysilyl)propyl)<br>ethylenediamine                             | 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)<br>propyl]-; 1,2-Ethanediamine, N-[3-<br>(trimethoxysilyl)propyl]-; [3-[(2-Aminoethyl)<br>amino; 1,2-Ethanediamine, N-(3-<br>(trimethoxysilyl)propyl)-; 3-<br>(2-aminoethylamino)<br>propyltrimethoxysilane; 2-aminoethyl<br>(3-trimethoxysilylpropyl)amine;<br>Ethylenediamine, N-(3-(trimethoxysilyl)<br>propyl)-; (trimethoxysilylpropyl)<br>ethylenediamine; 1,2-Ethanediamine, N-<br>{3-(trimethoxysilyl)propyl}-; 3-<br>(2-Aminoethylamino)<br>propyltrimethoxysilane;<br>Dehydrochlorination reaction products of<br>3-[(2-aminoethyl)amino]<br>propyltrimethoxysilane and<br>3-chloropropyltrimethoxysilane; N1-[3-<br>(Trimethoxysilyl)prop-1-yl]ethane-<br>1,2-diamine | 1 - 5*   | 1760-24-3     |
| 2,4,6-tris(dimethylaminomethyl)phenol  | Phenol, 2,4,6-tris[(dimethylamino)methyl]-;<br>Phenol, 2,4,6-tris(dimethylaminomethyl)-;<br>2,4,6-tris((dimethylamino)methyl)phenol;<br>Phenol, 2,4,6-tris{(dimethylamino)methyl]phenol;<br>2,4,6-Tris[(dimethylaminomethyl)phenol;<br>2,4,6-Tris(N,N-dimethylaminomethyl)<br>phenol;<br>2,4,6-Tridimethylaminomethylphenol;<br>TRIS  | 1 - 5*   | 90-72-2       |
|  |   | Ca       | nada Page: 3/ |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 3. Composition/information on ingredients

|  | (2,4,6-DIMETHYLAMINOMONOMETHYL)<br>PHENOL; TRIS<br>(2,4,6-DIMETHYLAMINOMETHYL)<br>PHENOL; TRIS[(DIMETHYLAMINO)<br>METHYL]PHENOL, 2,4,6- |            |                |
|--|---|------------|----------------|
| Alpha, Alpha"-(1,3-Xylenediyl)Bis<br>(12-Hydroxy-Octadecanamide) |   | 0.5 - 1.5* | Not available. |

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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.

## Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

| Eye contact  | <ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running<br/>water for at least 15 minutes, keeping eyelids open. Seek immediate medical<br/>attention.</li> </ul>                            |
|--------------|--|
| Inhalation   | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.</li> </ul> |
| Skin contact | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion    | <ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>   |

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

| Potential acute health       | <u>effects</u>  |  |  |  |
|------------------------------|---|--|--|--|
| Eye contact                  | : Causes serious eye damage.  |  |  |  |
| Inhalation                   | : Harmful if inhaled. May cause respiratory irritation.                                   |  |  |  |
| Skin contact                 | : Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction. |  |  |  |
| Ingestion                    | : Harmful if swallowed.   |  |  |  |
| Over-exposure signs/symptoms |   |  |  |  |
| Eye contact                  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness              |  |  |  |
| Inhalation                   | : Adverse symptoms may include the following: respiratory tract irritation coughing       |  |  |  |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 4. First-aid measures

| : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur  |  |  |  |
|---|--|--|--|
| : Adverse symptoms may include the following: stomach pains   |  |  |  |
| Indication of immediate medical attention and special treatment needed, if necessary  |  |  |  |
| : In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours.  |  |  |  |
| No specific treatment.  |  |  |  |
| : 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     | : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion.  |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>nitrogen oxides<br>metal oxide/oxides<br>Formaldehyde.   |
| 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 | <ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained<br/>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br/>mode.</li> </ul>  |

## Section 6. Accidental release measures

| Personal precautions, pre      | otective equipment and emergency procedures   |
|--------------------------------|---|
| For non-emergency<br>personnel | <ul> <li>No action shall be taken involving any personal risk or without suitable training.<br/>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br/>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br/>No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide<br/>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.<br/>Put on appropriate personal protective equipment.</li> </ul> |
|                                | Canada Page: 5/14   |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

#### Section 6. Accidental release measures

| 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. 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

| Protective measures                       | : | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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. |
|---|---|---|
| Special precautions                       | : | Vapors may accumulate in low or confined areas or travel a considerable distance to<br>a source of ignition and flash back. Vapors are heavier than air and may spread<br>along floors. If this material is part of a multiple component system, read the Safety<br>Data Sheet(s) for the other component or components before blending as the<br>resulting mixture may have the hazards of all of its parts.   |
| Advice on general<br>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.   |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 7. Handling and storage

| Conditions for safe storage,<br>including any<br>incompatibilities | accordance with local regulations. Store in a segregated and approved area. Store<br>in original container protected from direct sunlight in a dry, cool and well-ventilated<br>area, away from incompatible materials (see Section 10) and food and drink. Store<br>locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep<br>container tightly closed and sealed until ready for use. Containers that have been<br>opened must be carefully resealed and kept upright to prevent leakage. Do not<br>store in unlabeled containers. Use appropriate containment to avoid environmental |
|--|---|
|  | contamination.  |

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name   | Exposure limits  |
|---|--|
| Talc , not containing asbestiform fibres                              | CA British Columbia Provincial (Canada, 6/2022).   |
|   | TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable<br><b>CA Ontario Provincial (Canada).</b><br>TWA: 2 ppb Form: Respirable<br>TWA: 2 mg/m <sup>3</sup> Form: Respirable |
|   | <b>CA Quebec Provincial (Canada, 6/2022).</b><br>TWAEV: 2 mg/m <sup>3</sup> 8 hours. Form:<br>Respirable dust.   |
|   | CA Alberta Provincial (Canada, 6/2018).<br>8 hrs OEL: 2 mg/m <sup>3</sup> 8 hours. Form:   |
|   | Respirable particulate<br><b>CA Ontario Provincial (Canada, 6/2019).</b><br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable<br>particulate matter.                    |
|   | <b>CA Saskatchewan Provincial (Canada,</b><br><b>7/2013).</b><br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable<br>fraction  |
| 1,3-Cyclohexanedimethanamine<br>benzyl alcohol                        | None.<br>IPEL (-).<br>TWA: 5 ppm<br>STEL: 10 ppm   |
| Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol | None.  |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine                          | None.  |
| 2,4,6-tris(dimethylaminomethyl)phenol                                 | None.  |
| Alpha, Alpha"-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)          | None.  |

#### Consult local authorities for acceptable exposure limits.

| Recommended monitoring procedures   | : | Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.   |
|-------------------------------------|---|---|
| Appropriate engineering<br>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. |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 8. Exposure controls/personal protection

| Environmental exposure controls | :           | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |  |
|---------------------------------|-------------|---|--|
| Individual protection measu     | <u>ures</u> |   |  |
| Hygiene measures                | :           | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location.   |  |
| Eye/face protection             | :           | Chemical splash goggles and face shield.  |  |
| Skin protection                 |             |   |  |
| Hand protection                 | :           | Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |  |
| Gloves                          |             | nitrile neoprene  |  |
| Body protection                 | :           | Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>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

| <u>Appearance</u>         |                              |
|---------------------------|------------------------------|
| Physical state            | : Liquid.                    |
| Color                     | : Colorless.                 |
| Odor                      | : Characteristic.            |
| Odor threshold            | : Not available.             |
| рН                        | : Not applicable.            |
| Melting point             | : Not available.             |
| Boiling point             | : >37.78°C (>100°F)          |
| Flash point               | : Closed cup: 38°C (100.4°F) |
| Auto-ignition temperature | : Not available.             |
| Decomposition temperature | : Not available.             |
| Flammability              | : Not available.             |
|                           |                              |

Canada Page: 8/14

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 9. Physical and chemical properties

| Lower and upper explosive (flammable) limits | : Not available.  |   |  |  |
|--|-------------------|---|--|--|
| Evaporation rate                             | : Not available.  |   |  |  |
| Vapor pressure                               | : Not available.  | Not available.                                  |  |  |
| Vapor density                                | : Not available.  | Not available.                                  |  |  |
| Relative density                             | : 1.28            |   |  |  |
| Density ( lbs / gal )                        | : 10.68           |   |  |  |
| Solubility(ies) :                            | Media             | Result  |  |  |
|  | . cold water      | Not soluble                                     |  |  |
| Partition coefficient: n-<br>octanol/water   | : Not applicable. | : Not applicable.                               |  |  |
| Viscosity                                    | : Kinematic (40°  | : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) |  |  |
| Volatility                                   | : 24% (v/v), 19.8 | : 24% (v/v), 19.859% (w/w)                      |  |  |
| % Solid. (w/w)                               | : 80.141          |   |  |  |

## 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.<br>Refer to protective measures listed in sections 7 and 8.        |
| 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     |
|--|---------------------------------|---------|-------------------------|--------------|
| 1,3-Cyclohexanedimethanamine                     | LD50 Dermal                     | Rabbit  | 1700 mg/kg              | -            |
|  | LD50 Oral                       | Rat     | 700 mg/kg               | -            |
| benzyl alcohol                                   | LC50 Inhalation Dusts and mists | Rat     | >4178 mg/m <sup>3</sup> | 4 hours      |
|  | LD50 Dermal                     | Rabbit  | 2000 mg/kg              | -            |
|  | LD50 Oral                       | Rat     | 1.23 g/kg               | -            |
| N-(3-(trimethoxysilyl)propyl)<br>ethylenediamine | LD50 Dermal                     | Rabbit  | >2000 mg/kg             | -            |
| 5  | LD50 Oral                       | Rat     | 2413 mg/kg              | -            |
| 2,4,6-tris                                       | LD50 Dermal                     | Rabbit  | 1.28 g/kg               | -            |
|  |                                 |         | Can                     | ada Page: 9/ |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 11. Toxicological information

| (dimethylaminomethyl) | LD50 Dermal            | Rat                   | 1280 mg/kg |  |
|-----------------------|------------------------|-----------------------|------------|--|
| phenol                | LD50 Oral              | Rat                   | 1200 mg/kg |  |
| Conclusion/Summary    | : There are no data av | ailable on the mixtur | e itself.  |  |

#### Irritation/Corrosion

: I here are no data available on the mixture itself.

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

#### **Conclusion/Summary**

| Skin<br>Eyes<br>Respiratory<br><u>Sensitization</u> | <ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul> |
|---|--|
| Skin  | : There are no data available on the mixture itself.   |
| Respiratory   | : There are no data available on the mixture itself.   |
| Mutagenicity  |  |
| <b>Conclusion/Summary</b>                           | : There are no data available on the mixture itself.   |
| <b>Carcinogenicity</b>                              |  |
| <b>Conclusion/Summary</b>                           | : There are no data available on the mixture itself.   |
| Reproductive toxicity                               |  |
| <b>Conclusion/Summary</b>                           | : There are no data available on the mixture itself.   |
| Teratogenicity                                      |  |
| <b>Conclusion/Summary</b>                           | : There are no data available on the mixture itself.   |

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

| Name   | Category   | Route of exposure | Target organs                   |
|--|------------|-------------------|---------------------------------|
| Talc , not containing asbestiform fibres                         | Category 3 | -                 | Respiratory tract irritation    |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine                     | Category 3 | -                 | Respiratory tract<br>irritation |
| Alpha, Alpha"-(1,3-Xylenediyl)Bis(12-Hydroxy-<br>Octadecanamide) | Category 3 | -                 | Respiratory tract irritation    |

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

Not available.

**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, lungs, mucous membranes, cardiovascular system, upper respiratory tract, skin, eyes, central nervous system (CNS).

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 11. Toxicological information

| Potential acute health effects |   |     |
|--------------------------------|---|-----|
| Eye contact                    | Causes serious eye damage.  |     |
| Inhalation                     | Harmful if inhaled. May cause respiratory irritation.                                   |     |
| Skin contact                   | Causes severe burns. Harmful in contact with skin. May cause an allergic sl<br>eaction. | kin |
| Ingestion                      | Harmful if swallowed.   |     |

#### **Over-exposure signs/symptoms**

| Eye contact  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
|--------------|--|
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing              |
| Skin contact | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| Ingestion    | : Adverse symptoms may include the following: stomach pains  |

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

| 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 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<br>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             |  |

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 11. Toxicological information

| 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 effe | ects  |
| General                       | : 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 810/810ER NEUTRAL CURE  | 1301.9           | 1861.5            | N/A                            | N/A                              | 1.6  |
| 1,3-Cyclohexanedimethanamine  | 700              | 1700              | N/A                            | N/A                              | N/A  |
| benzyl alcohol  | 1230             | 2000              | N/A                            | N/A                              | 1.5  |
| Formaldehyde, polymer with N,N-dimethyl-<br>1,3-propanediamine and phenol             | 500              | N/A               | N/A                            | N/A                              | N/A  |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>2,4,6-tris(dimethylaminomethyl)phenol | 2413<br>1200     | 2500<br>1280      | N/A<br>N/A                     | N/A<br>N/A                       | N/A<br>N/A                                   |

## Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name                          | Result              | Species            | Exposure |
|--|---------------------|--------------------|----------|
| 1,3-Cyclohexanedimethanamine                     | LC50 130 mg/l       | Fish - golden orfe | 96 hours |
| N-(3-(trimethoxysilyl)propyl)<br>ethylenediamine | EC50 597 mg/l       | Fish               | 96 hours |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol        | Acute LC50 175 mg/l | Fish               | 96 hours |

#### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| benzyl alcohol          | -                 | -          | Readily          |

#### **Bioaccumulative potential**

| Product/ingredient name                   | LogPow | BCF | Potential |
|---|--------|-----|-----------|
| 1,3-Cyclohexanedimethanamine              | 0.783  | -   | Low       |
| benzyl alcohol                            | 0.87   | -   | Low       |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | 0.219  | -   | Low       |

#### Mobility in soil

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

## Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

## 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. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14. Transport information

|                                | TDG   | IMDG  | ΙΑΤΑ   |
|--------------------------------|---|---|--|
| UN number                      | UN3470  | UN3470  | UN3470   |
| UN proper shipping name        | PAINT, CORROSIVE,<br>FLAMMABLE  | PAINT, CORROSIVE,<br>FLAMMABLE  | PAINT, CORROSIVE,<br>FLAMMABLE                                     |
| Transport hazard class<br>(es) | 8 (3)   | 8 (3)   | 8 (3)  |
| Packing group                  | II  | II  | II   |
| Environmental hazards          | Yes.  | Yes.  | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant<br>substances | (Formaldehyde, polymer with<br>N,N-dimethyl-<br>1,3-propanediamine and<br>phenol) | (Formaldehyde, polymer with<br>N,N-dimethyl-<br>1,3-propanediamine and<br>phenol) | Not applicable.  |

# Additional information TDG : The marine pollutant mark is not required when transported by road or rail. 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.

#### Product name NOVAGUARD 810/810ER NEUTRAL CURE

#### Section 14. Transport information

| Special precautions for user                   | : | <b>Transport within user's premises:</b> 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.   |
| Proof of classification statement              | : | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).                                     |

## Section 15. Regulatory information

#### **National Inventory List**

Canada inventory (DSL) : At least one component is not listed.

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 2 Physical hazards : 0 (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

## The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

| National Fire Protection Asso      | ociation (U.S.A.)   |
|------------------------------------|---|
| Health : 3 Flamma                  | bility : 2 Instability : 0  |
| Date of issue/Date of revision     | 3 September 2023  |
| Organization that prepared the SDS | : EHS   |
| Key to abbreviations               | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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