

## 1. Identification

**Product identifier** **NOVOCOAT™ NOVOFLOOR PART B**

**Other means of identification** None.

**Recommended use** Not available.

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>Company Name</b>                       | Armor Limited, Inc.                                                     |
| <b>Address</b>                            | 2410 US-15 South, Sumter, SC 29150                                      |
| <b>After hours telephone number</b>       | 1-877-982-7667                                                          |
| <b>Normal work hours telephone number</b> | 1-877-982-7667                                                          |
| <b>Website</b>                            | www.armor-inc.com                                                       |
| <b>E-mail</b>                             | customerservice@armor-inc.com                                           |
| <b>Emergency 24-hour telephone number</b> | CHEMTREC North America: +1-800-424-9300, International: +1-703-527-3887 |
| <b>Information on operation hours</b>     | 8:00am to 5:00pm                                                        |

## 2. Hazard(s) identification

**Physical hazards** Not classified.

|                       |                                                   |                             |
|-----------------------|---------------------------------------------------|-----------------------------|
| <b>Health hazards</b> | Skin corrosion/irritation                         | Category 1                  |
|                       | Serious eye damage/eye irritation                 | Category 1                  |
|                       | Sensitization, respiratory                        | Category 1                  |
|                       | Sensitization, skin                               | Category 1                  |
|                       | Germ cell mutagenicity                            | Category 2                  |
|                       | Reproductive toxicity                             | Category 2                  |
|                       | Specific target organ toxicity, single exposure   | Category 1                  |
|                       | Specific target organ toxicity, single exposure   | Category 3 narcotic effects |
|                       | Specific target organ toxicity, repeated exposure | Category 1                  |

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

## Precautionary statement

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

### Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/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/doctor. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. Specific treatment see Section 4 of this SDS.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

Not applicable.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name                                                                   | Common name and synonyms | CAS number | %       |
|---------------------------------------------------------------------------------|--------------------------|------------|---------|
| [3-(AMINOMETHYL)PHENYL]METHANAMINE                                              |                          | 1477-55-0  | 10 - 30 |
| 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE                                    |                          | 2855-13-2  | 10 - 30 |
| FORMALDEHYDE, POLYMER WITH N1,N2-BIS(2-AMINOETHYL)-1,2-ETHANEDIAMINE AND PHENOL |                          | 32610-77-8 | 10 - 30 |
| PHENOL, 4-NONYL-, BRANCHED                                                      |                          | 84852-15-3 | 10 - 30 |
| Other components below reportable levels                                        |                          |            | 16      |

## 4. First-aid measures

### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or poison control center immediately.

### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Chemical burns must be treated by a physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse. Wash clothing separately before reuse. Call a physician or poison control center immediately.

### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or poison control center immediately.

### Ingestion

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not use mouth-to-mouth method if victim ingested the substance. Call a physician or poison control center immediately.

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

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. Irritating to mouth, throat, and stomach. May cause an allergic skin reaction. Nausea, vomiting. Shortness of breath.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

|                                                               |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | Water fog. Alcohol foam. Foam. Dry chemical powder. Carbon dioxide (CO2).                                                                                                                                                                                                                                                                       |
| Unsuitable extinguishing media                                | Water. Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                                                                                                   |
| Specific hazards arising from the chemical                    | Fire may produce irritating, corrosive and/or toxic gases.                                                                                                                                                                                                                                                                                      |
| Special protective equipment and precautions for firefighters | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.                                                                                                                                                                                    |
| Fire fighting equipment/instructions                          | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage. |
| Specific methods                                              | Move containers from fire area if you can do so without risk.                                                                                                                                                                                                                                                                                   |
| General fire hazards                                          | No unusual fire or explosion hazards noted.                                                                                                                                                                                                                                                                                                     |

6. Accidental release measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                                                                                                      |
| Methods and materials for containment and cleaning up               | Extinguish all flames in the vicinity.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills in original containers for re-use. |
| Environmental precautions                                           | Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

7. Handling and storage

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling                                | Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. When using do not eat or drink. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Use personal protective equipment as required. Do not get this material on clothing. Observe good industrial hygiene practices. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. |
| Conditions for safe storage, including any incompatibilities | Store locked up. Keep away from food, drink and animal feedingstuffs.                                                                                                                                                                                                                                                                                                                                                                                                            |

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

| Components                                         | Type    | Value     |
|----------------------------------------------------|---------|-----------|
| [3-(AMINOMETHYL)PHENYL]METHANAMINE (CAS 1477-55-0) | Ceiling | 0.018 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

| Components                                         | Type    | Value     |
|----------------------------------------------------|---------|-----------|
| [3-(AMINOMETHYL)PHENYL]METHANAMINE (CAS 1477-55-0) | Ceiling | 0.1 mg/m3 |

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
|-------------------------|------------------------------------------------------------|

## Exposure guidelines

### US - California OELs: Skin designation

[3-(AMINOMETHYL)PHENYL]METHANAMINE  
(CAS 1477-55-0)

Can be absorbed through the skin.

### US - Tennessee OELs: Skin designation

[3-(AMINOMETHYL)PHENYL]METHANAMINE  
(CAS 1477-55-0)

Can be absorbed through the skin.

### US ACGIH Threshold Limit Values: Skin designation

[3-(AMINOMETHYL)PHENYL]METHANAMINE  
(CAS 1477-55-0)

Danger of cutaneous absorption

### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

[3-(AMINOMETHYL)PHENYL]METHANAMINE  
(CAS 1477-55-0)

Can be absorbed through the skin.

### Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Chemical goggles and face shield are recommended.

#### Skin protection

##### Hand protection

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. Nitrile.

##### Other

Skin protection should include disposable chemical resistant coveralls with hoods. Hand protection should include appropriate chemical resistant disposable gloves, such as nitrile rubber.

#### Respiratory protection

If in spray application, respiratory protection should include at a minimum a fullface air purifying respirator (APR) with combination particulate (P100) and organic vapor (OV) cartridges. A full-face APR has an assigned protection factor (APF) of 50, as designated by OSHA. As a substitute, a PAPR with a loose-fitting hood could be used as respiratory protection.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink.

## 9. Physical and chemical properties

### Appearance

Liquid.

#### Physical state

Liquid.

#### Form

Liquid.

#### Color

Colourless to light yellow.

### Odor

Amine-like.

### Odor threshold

Not available.

### pH

Alkaline

### Melting point/freezing point

Not available.

### Initial boiling point and boiling range

>476.6 °F (>247 °C)

### Flash point

>199.4 °F (>93.0 °C)

### Evaporation rate

Not available.

### Flammability (solid, gas)

Not available.

### Upper/lower flammability or explosive limits

#### Explosive limit - lower (%)

Not available.

#### Explosive limit - upper (%)

Not available.

### Vapor pressure

13.3 Pa

### Vapor density

Not available.

### Relative density

Not available.

### Solubility(ies)

#### Solubility (water)

Partially soluble

|                                                |                       |
|------------------------------------------------|-----------------------|
| <b>Partition coefficient (n-octanol/water)</b> | Not available.        |
| <b>Auto-ignition temperature</b>               | Not available.        |
| <b>Decomposition temperature</b>               | Not available.        |
| <b>Viscosity</b>                               | Not available.        |
| <b>Other information</b>                       |                       |
| <b>Density</b>                                 | 8.20 lb/gal estimated |
| <b>Specific gravity</b>                        | 0.98 estimated        |

10. Stability and reactivity

|                                           |                                                                                                                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                                                        |
| <b>Chemical stability</b>                 | Stable at normal conditions.                                                                                                                                                         |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization can occur with elevated temperatures.                                                                                                                       |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.                                                                                                   |
| <b>Incompatible materials</b>             | Acids. Alkaline metals. Amines. Peroxides. Fluorine. Chlorine. Phenols. Strong acids, alkalies and oxidizing agents.                                                                 |
| <b>Hazardous decomposition products</b>   | Toxic gas. If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced. Upon combustion, oxides of chlorine may be released. |

11. Toxicological information

Information on likely routes of exposure

|                     |                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. |
| <b>Skin contact</b> | Causes severe skin burns and eye damage.                                                                                  |
| <b>Eye contact</b>  | Causes serious eye damage.                                                                                                |
| <b>Ingestion</b>    | May be harmful if swallowed.                                                                                              |

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Irritation of eyes and mucous membranes. Burning pain and severe corrosive skin damage. Coughing. Shortness of breath. Irritating to mouth, throat, and stomach. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Exposure may cause temporary irritation, redness, or discomfort. May cause an allergic skin reaction. Dermatitis. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause respiratory irritation. |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Information on toxicological effects

Acute toxicity

| Components                                  | Species | Test Results |
|---------------------------------------------|---------|--------------|
| PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) |         |              |
| <b>Acute</b>                                |         |              |
| <b>Dermal</b>                               |         |              |
| LD50                                        | Rabbit  | 2140 mg/kg   |
| <b>Oral</b>                                 |         |              |
| LD50                                        | Rat     | 1600 mg/kg   |

\* Estimates for product may be based on additional component data not shown.

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Causes severe skin burns and eye damage. |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye damage.               |

Respiratory or skin sensitization

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| <b>Respiratory sensitization</b> | May cause allergy or asthma symptoms or breathing difficulties if inhaled.      |
| <b>Skin sensitization</b>        | May cause an allergic skin reaction.                                            |
| <b>Germ cell mutagenicity</b>    | Suspected of causing genetic defects.                                           |
| <b>Carcinogenicity</b>           | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|                                                           |                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity</b>                              | Suspected of damaging fertility or the unborn child. Avoid exposure to women during early pregnancy.                                                           |
| <b>Specific target organ toxicity - single exposure</b>   | May cause drowsiness or dizziness. Causes damage to organs. Causes central nervous system effects. Eyes. Narcotic effects. May cause drowsiness and dizziness. |
| <b>Specific target organ toxicity - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure. Blood. Skin. Respiratory system. Liver. Kidneys.                                               |
| <b>Aspiration hazard</b>                                  | Not available.                                                                                                                                                 |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.                                                                                                                           |

## 12. Ecological information

|                    |                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b> | Harmful to aquatic life. Components of this product are hazardous to aquatic life. Accumulation in aquatic organisms is expected. |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|

| Product                    |      | Species | Test Results                    |
|----------------------------|------|---------|---------------------------------|
| NOVOCOAT™ NOVOFLOOR PART B |      |         |                                 |
| Aquatic                    |      |         |                                 |
| Crustacea                  | EC50 | Daphnia | 0.1113 mg/l, 48 hours           |
| Acute                      |      |         |                                 |
| Crustacea                  | EC50 | Daphnia | 0.1112 mg/l, 48 hours estimated |
| Fish                       | LC50 | Fish    | 0.05 mg/l, 96 hours estimated   |

| Components                                                   | Species |                                           | Test Results               |
|--------------------------------------------------------------|---------|-------------------------------------------|----------------------------|
| 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS 2855-13-2) |         |                                           |                            |
| Aquatic                                                      |         |                                           |                            |
| Acute                                                        |         |                                           |                            |
| Crustacea                                                    | EC50    | Water flea (Daphnia magna)                | 14.6 - 21.5 mg/l, 48 hours |
| PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3)                  |         |                                           |                            |
| Aquatic                                                      |         |                                           |                            |
| Acute                                                        |         |                                           |                            |
| Crustacea                                                    | EC50    | Clam (Mulinia lateralis)                  | 0.0379 mg/l, 48 hours      |
| Fish                                                         | LC50    | Winter flounder (Pleuronectes americanus) | 0.017 mg/l, 96 hours       |

|                                      |                                                            |
|--------------------------------------|------------------------------------------------------------|
| <b>Persistence and degradability</b> | No data is available on the degradability of this product. |
|--------------------------------------|------------------------------------------------------------|

|                                  |                    |
|----------------------------------|--------------------|
| <b>Bioaccumulative potential</b> | No data available. |
|----------------------------------|--------------------|

### Partition coefficient n-octanol / water (log Kow)

|                            |      |
|----------------------------|------|
| PHENOL, 4-NONYL-, BRANCHED | 5.71 |
|----------------------------|------|

|                         |                    |
|-------------------------|--------------------|
| <b>Mobility in soil</b> | No data available. |
|-------------------------|--------------------|

|                              |                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other adverse effects</b> | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 13. Disposal considerations

|                              |                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b> | Dispose of contents/container in accordance with local/regional/national/international regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| <b>Local disposal regulations</b> | Dispose in accordance with all applicable regulations. |
|-----------------------------------|--------------------------------------------------------|

|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Hazardous waste code</b> | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|

|                                              |                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                                                                                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contaminated packaging</b> | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities. |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14. Transport information

### DOT

|                                     |                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>UN number</b>                    | UN2735                                                                                                                    |
| <b>UN proper shipping name</b>      | Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s. (PHENOL, 4-NONYL-, BRANCHED), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |                                                                                                                           |
| <b>Class</b>                        | 8                                                                                                                         |
| <b>Subsidiary hazard</b>            | -                                                                                                                         |
| <b>Label(s)</b>                     | 8                                                                                                                         |
| <b>Packing group</b>                | III                                                                                                                       |
| <b>Environmental hazards</b>        |                                                                                                                           |
| <b>Marine pollutant</b>             | Yes                                                                                                                       |
| <b>Special precautions for user</b> | Not assigned.                                                                                                             |
| <b>Special provisions</b>           | IB3, T7, TP1, TP28                                                                                                        |
| <b>Packaging exceptions</b>         | 154                                                                                                                       |
| <b>Packaging non bulk</b>           | 203                                                                                                                       |
| <b>Packaging bulk</b>               | 241                                                                                                                       |

### IATA

|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| <b>UN number</b>                    | UN2735                                                         |
| <b>UN proper shipping name</b>      | Amines, liquid, corrosive, n.o.s. (PHENOL, 4-NONYL-, BRANCHED) |
| <b>Transport hazard class(es)</b>   |                                                                |
| <b>Class</b>                        | 8                                                              |
| <b>Subsidiary hazard</b>            | -                                                              |
| <b>Packing group</b>                | III                                                            |
| <b>Environmental hazards</b>        | YES                                                            |
| <b>ERG Code</b>                     | 8L                                                             |
| <b>Special precautions for user</b> | Not assigned.                                                  |
| <b>Other information</b>            |                                                                |
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions.                                     |
| <b>Cargo aircraft only</b>          | Allowed with restrictions.                                     |

### IMDG

|                                     |                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>UN number</b>                    | UN2735                                                                                                                    |
| <b>UN proper shipping name</b>      | AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, 4-NONYL-, BRANCHED), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |                                                                                                                           |
| <b>Class</b>                        | 8                                                                                                                         |
| <b>Subsidiary hazard</b>            | -                                                                                                                         |
| <b>Packing group</b>                | III                                                                                                                       |
| <b>Environmental hazards</b>        |                                                                                                                           |
| <b>Marine pollutant</b>             | Yes                                                                                                                       |
| <b>EmS</b>                          | F-A, S-B                                                                                                                  |
| <b>Special precautions for user</b> | Not assigned.                                                                                                             |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

### DOT





Marine pollutant



## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) 1.0 % One-Time Export Notification only.

#### TSCA Chemical Action Plans, Chemicals of Concern

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

#### Toxic Substances Control Act (TSCA) Section 5(a)(2) Proposed Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3) 721.10765

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

#### Classified hazard categories

Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Respiratory or skin sensitization  
 Germ cell mutagenicity  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)

### SARA 313 (TRI reporting)

| Chemical name              | CAS number | % by wt. |
|----------------------------|------------|----------|
| PHENOL, 4-NONYL-, BRANCHED | 84852-15-3 | 10 - 30  |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

PHENOL, 4-NONYL-, BRANCHED (CAS 84852-15-3)

**California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 06-15-2020**Revision date** 03-22-2024**Version #** 03**NFPA ratings** Health: 4  
Flammability: 0  
Instability: 0**References** EPA: AQUIRE database  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**Revision information** This document has undergone significant changes and should be reviewed in its entirety.