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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|--------------|
|                                                                                                              | <b>GHS</b><br><b>Material Safety Data Sheet</b>                                                              | Reg. No   | MSDS-ECOLAY+ |
|                                                                                                                                                                                              |                                                                                                              | Enactment | 2009.10.22   |
| <b>Q.A team, Nox Corporation,</b><br><b>67, Hwanggeumtteul-ro, Bongsan</b><br><b>Myeon, YeSan-Gun,</b><br><b>Choong Nam, Korea</b><br><b>TEL : 041-337-0231</b><br><b>FAX : 041-337-0233</b> | <b>Product Name :</b><br><b>LUXURY VINYL TILE</b><br><b>( ECOLAY+)</b><br><b>5.0mmT / 0.550mm wear layer</b> | Revision  | 2017.05.01   |
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#### 1. Product Class & Supplier's information

- a. Class : P.V.C Heterogeneous Tile
- b. Hazardous polymerization : Not hazard
- c. Description : PVC Heterogeneous resilient floor covering
- d. Manufacturer : Nox Corporation, 67, Hwanggeumtteul-ro, Bongsan- Myeon, YeSan-Gun, Chung Nam, Korea :041)337-0231
- e. Seller : Nox Corporation, KD Center, 355, Hyoryeong-ro, Seocho-gu, Seoul, Korea : 02)520-7600
- f. Descriptor : Sang Yul, Choi, Q.A Team, Nox Corp, Bongsan Factory

#### 2. Hazardous Ingredients / Health Hazard

a. Chemical Identity : Common Name

| Name                          | Health | Flammability | Reactivity |
|-------------------------------|--------|--------------|------------|
| Poly Vinyl Chloride           | 1      | 0            | 0          |
| Di-2-Ethylhexyl Terephthalate | 1      | 1            | 0          |
| CaCO <sub>3</sub>             | N/K    | N/K          | N/K        |
| Glass Fiber                   | N/K    | N/K          | N/K        |
| Stabilizer                    | N/K    | N/K          | N/K        |

- b. Eye contact risks : Not an anticipated hazard
- c. Skin contact risks : Not an anticipated hazard
- d. Skin absorption health risks : Not an anticipated hazard
- e. Ingestion health Risks : Not an anticipated hazard
- f. Chronicity symptom : Not an anticipated hazard

#### 3. Composition / Information on Ingredients

| Material                      | Role of Material | Percent of Finished product |
|-------------------------------|------------------|-----------------------------|
| Poly Vinyl Chloride           | Polymer          | 32 ~ 37                     |
| Di-2-Ethylhexyl Terephthalate | Plasticizer      | 13 ~ 18                     |
| CaCO <sub>3</sub>             | Filler           | 45 ~ 50                     |
| Glass Fiber                   | G/F              | 0.2 ~ 0.7                   |
| Others                        | Others           | 1 ~ 3                       |

#### 4. First Aid Procedures

- a. Inhalation : Dust does not occur almost but remove person to fresh air.  
If discomfort persists, seek doctor's attention.
- b. Skin exposure : Wash affected area with soap and water.  
If discomfort persists, seek doctor's attention.
- c. Eye exposure : Flush eyes with running water and obtain doctor's diagnosis
- d. Ingestion : Obtain doctor's diagnosis
- e. Doctor's Notice : No specific advice. Treat symptomatically

|                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>5. Unusual Fire &amp; Explosion Hazards</b>                                                                                                                                                                                                                                                                                                                                                          |
| a. Flash Point & Ignition Point : N/A<br>b. Fire & Explosion Risk : Dangerous at high temperature & Flame<br>c. Regulations for firefighting : N/A<br>d. Extinguishing Media : Depending on each fire (water, ABC dry chemical, protein type air foams...)<br>e. Hazardous ingredients in ignition : Carbon monoxide, Carbon dioxide & other toxic carbon chemical)<br>f. Prohibited Extinguisher : N/A |
| <b>6. Leak Procedures</b>                                                                                                                                                                                                                                                                                                                                                                               |
| a. Protection steps for body : N/A<br>b. Protection steps for environment : Place into a container for disposal<br>c. Purification & Removal : Place into a container for residues                                                                                                                                                                                                                      |
| <b>7. Handling &amp; Storage</b>                                                                                                                                                                                                                                                                                                                                                                        |
| a. Safety Handling : Provide efficient ventilation and wear safety equipment<br>b. Storage : Keep the product at dried & good ventilation place to protect moisture                                                                                                                                                                                                                                     |
| <b>8. Control Measures</b>                                                                                                                                                                                                                                                                                                                                                                              |
| a. Chemical Engineering control : N/A.<br>b. Respiratory protection : N/A<br>c. Eye Protection : N/A<br>d. Hand protection : Protective glove<br>e. Body protection : N/A<br>f. Hygienic practices : N/A<br>g. Exposure standard (Industrial safety & hygienic regulations) : N/A                                                                                                                       |
| <b>9. Physical &amp; Chemical Characteristics</b>                                                                                                                                                                                                                                                                                                                                                       |
| a. appearance : Half rigid vinyl resin<br>b. Smell : Odorless<br>c. PH : N/A<br>d. Solubility in Water : insoluble but soluble at organic solvent chemical compound<br>e. Boiling point / scope : N/A<br>f. Melting point / scope : N/A<br>g. Explosion : None.<br>h. Oxidation : None.<br>i. Steam density : N/A<br>j. gravity : 1.65~1.75<br>k. Viscosity : N/A<br>l. Molecule : N/K.                 |
| <b>10. Reactivity Data</b>                                                                                                                                                                                                                                                                                                                                                                              |
| a. Chemical Stability : Stable at high temperature & Pressure<br>b. Avoid to condition : N/A<br>c. Hazardous Decomposition: N/A<br>d. Hazardous reaction : None                                                                                                                                                                                                                                         |
| <b>11. Toxicity information</b>                                                                                                                                                                                                                                                                                                                                                                         |
| a. Carcinogenesis : None<br>b. Toxic information : None.                                                                                                                                                                                                                                                                                                                                                |
| <b>12. Environmental Influence</b>                                                                                                                                                                                                                                                                                                                                                                      |
| a. aquatic ecosystems & Ecology : N/A<br>b. Soil sterileness : N/A<br>c. The residues & degradability : N/A<br>d. Stockpiling internal of creatures : N/A                                                                                                                                                                                                                                               |
| <b>13. Disposal Information</b>                                                                                                                                                                                                                                                                                                                                                                         |
| a. Disposal Regulations : act on regulations of factory disposal<br>b. Disposal : by self or consignment<br>c. Disposal Notice : N/A                                                                                                                                                                                                                                                                    |

**14. Transport Information**

- a. Hazard Class : Not Hazardous
- b. Transportation Notice : N/A
- c. These products are not defined or designated as a hazardous material.

**15. Legal Regulations**

- a. Industrial safety & hygienic regulations : N/E
- b. Hazardous chemical compound regulations : N/E
- c. Any Foreign's regulations : N/E

**16. Other Information**

- a. Data Source
  - 1. Standard for safety & Hygienic material (Notification 97-27 by Department of Labor, Oct / 1997)
  - 2. Material safety & Hygienic Data Sheet (Industrial Safety public corporation, Nov / 1996)
  - 3. MSDS from each material supplier

- \* N/A - None Applicable
- \* N/K - None Known
- \* N/E - None Established