



## Safety Data Sheet

prepared to UN GHS Revision 3

**1. Identification of the Substance/Mixture and the Company/Undertaking**

- 1.1 Product Identifier 209-EPW-A-CLEAR Revision Date: 03/20/2015  
Product Name: Peran WW/Flowseal EPW Base A Supercedes Date: 08/25/2014
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Base component of 2 components coatings - Industrial use.
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer: Flowcrete North America, Inc.  
616 Spring Hill Drive, Suite 100  
Spring, TX 77386  
americas@flowcrete.com  
www.flowcreteamericas.com  
Tel: (936) 539-6700  
Fax: (936) 539-6701
- Datasheet Produced by: Anderson, Paul - americas@flowcrete.com
- 1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

**2. Hazard Identification**

- 2.1 Classification of the substance or mixture
- Hazardous to the aquatic environment, Chronic, category 2  
Eye Irritation, category 2  
Skin Irritation, category 2  
Skin Sensitizer, category 1

## 2.2 Label elements

## Symbol(s) of Product



## Signal Word

Warning

## Named Chemicals on Label

reaction product: bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700), oxirane, mono [(c12-14-alkyloxy)methyl] derivs.

## HAZARD STATEMENTS

|   |      |  |
|---|------|--|
| Hazardous to the aquatic environment, Chronic, category 2 | H411 | Toxic to aquatic life with long lasting effects. |
| Eye Irritation, category 2                                | H319 | Causes serious eye irritation.                   |
| Skin Irritation, category 2                               | H315 | Causes skin irritation.                          |
| Skin Sensitizer, category 1                               | H317 | May cause an allergic skin reaction.             |

## PRECAUTION PHRASES

|              |   |
|--------------|---|
| P261         | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P273         | Avoid release to the environment  |
| P280         | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P302+352     | IF ON SKIN: Wash with plenty of soap and water.   |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P332+313     | If skin irritation occurs: Get medical advice/attention.  |
| P333+313     | If skin irritation or rash occurs: Get medical advice/attention.  |
| P391         | Collect spillage.   |

## 2.3 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

### 3. Composition/Information On Ingredients

## 3.2 Mixtures

## Hazardous Ingredients

| <u>CAS-No.</u> | <u>Chemical Name</u>   | <u>%</u> |
|----------------|--|----------|
| 25068-38-6     | reaction product: bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700) | 75-100   |
| 68609-97-2     | oxirane, mono[(c12-14-alkyloxy)methyl] derivs.   | 10-25    |

| <u>CAS-No.</u> | <u>GHS Symbols</u> | <u>GHS Hazard Statements</u> | <u>M-Factors</u> |
|----------------|--------------------|------------------------------|------------------|
| 25068-38-6     | GHS07-GHS09        | H315-317-319-411             | 0                |
| 68609-97-2     | GHS07              | H315-317                     | 0                |

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. 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.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritating to skin. May cause sensitization by skin contact. Prolonged or repeated exposure increases the risk. Harmful to aquatic organisms.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

### 5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Contains epoxy constituents. See information supplied by the manufacturer.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment

### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /national regulations (see section 13).

## 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment

**PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Extremes of temperature and direct sunlight

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight

### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

| <u>Name</u>  | <u>%</u> | <u>OSHA PEL</u> | <u>Company TLV</u> |
|--|----------|-----------------|--------------------|
| reaction product: bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700) | 75-100   |                 |                    |
| oxirane, mono[(c12-14-alkyloxy)methyl] derivs.   | 10-25    |                 |                    |

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

Personal Protection

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required.

**EYE PROTECTION:** Safety glasses.

**HAND PROTECTION:** Rubber or plastic gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                |                   |
|----------------|-------------------|
| Appearance:    | Transparent Resin |
| Physical State | Liquid            |
| Odor           | Weak Epoxy        |
| Odor threshold | Not determined    |
| pH             | Non-aqueous       |

|  |                        |
|--|------------------------|
| Melting point /freezing point (°C)           | Not determined         |
| Boiling point/range (°C)                     | N.D. - N.D.            |
| Flash Point, (°C)                            | 93                     |
| Evaporation rate                             | Not determined         |
| Flammability (solid, gas)                    | Not determined         |
| Upper/lower flammability or explosive limits | 999 - 0                |
| Vapour Pressure                              | Not determined         |
| Vapour density                               | 1.16 g/cm <sup>3</sup> |
| Relative density                             | Not determined         |
| Solubility in /Miscibility with water        | Insoluble              |
| Partition coefficient: n-octanol/water       | Not determined         |
| Auto-ignition temperature (°C)               | Not determined         |
| Decomposition temperature (°C)               | Not determined         |
| Viscosity                                    | Not determined         |
| Explosive properties                         | N/A                    |
| Oxidising properties                         | N/A                    |

## 9.2 Other information

|                                       |       |
|---------------------------------------|-------|
| VOC Content g/l:                      | 20    |
| Specific Gravity (g/cm <sup>3</sup> ) | 0.120 |

## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight

### 10.5 Incompatible materials

Strong oxidizing agents. Acids and bases.

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

Irritation: Irritating to eyes, skin, mouth and pharynx.

Corrosivity: No information available.

Sensitization: Prolonged or repeated skin contact may result in allergic eczema.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>  | <u>Oral LD50</u>       | <u>Dermal LD50</u> | <u>Vapor LC50</u> |
|----------------|---|------------------------|--------------------|-------------------|
| 25068-38-6     | reaction product bisphenol-a-(epichlorhydrin)<br>epoxy resin (number average molecularweight<br><= 700) | >2000 mg/kg, rat, oral | >2000 mg/kg, rat   |                   |
| 68609-97-2     | oxirane, mono[[c12-14-alkyloxy)methyl]<br>derivs.   | 17100 mg/kg, oral, rat |                    |                   |

Additional Information:

No Information

## 12. Ecological Information

### 12.1 Toxicity:

EC 50 48hr (Daphnia): No information

IC 50 72hr (Algae): No information

LC 50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment                      The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

12.6 Other adverse effects:    No information

| <u>CAS-No.</u> | <u>Chemical Name</u>  | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|---|------------------|------------------|------------------|
| 25068-38-6     | reaction product bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700) | No information   | No information   |                  |
| 68609-97-2     | oxirane, mono[(c12-14-alkyloxy)methyl] derivs.  | No information   | No information   |                  |

### 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport Information

|   |   |
|---|---|
| 14.1 UN number  | UN3082  |
| 14.2 UN proper shipping name  | Environmentally Hazardous Substance, Liquid, N.O.S. |
| Technical name  | Epoxy Resin   |
| 14.3 Transport hazard class(es)   | 9   |
| Subsidiary shipping hazard  | N/A   |
| 14.4 Packing group  | III   |
| 14.5 Environmental hazards  | Yes   |
| 14.6 Special precautions for user   | Not applicable                                      |
| EmS-No.:  |   |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Not applicable                                      |

### 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

U.S. Federal Regulations: As follows -

#### CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product

**Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product

**U.S. Clean Air Act**

|                              |                            |
|------------------------------|----------------------------|
| EPA Coating Category:        | Floor Coatings             |
| EPA VOC Content Limit (g/l): | 400                        |
| Product VOC Content (g/l)    | <20                        |
| Thinning Recommendations:    | None                       |
| Application Recommendations: | For professional use only. |

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product

**Pennsylvania Right-To-Know**

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product

**California Proposition 65:**

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

No Proposition 65 Carcinogens exist in this product

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product

**International Regulations: As follows -****\* Canadian DSL:**

All chemical ingredients included on inventory or exempt.

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**16. Other Information**

Text for GHS Hazard Statements shown in Section 3 describing each ingredient

H315 Causes skin irritation.



|      |  |
|------|--|
| H317 | May cause an allergic skin reaction.             |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

## Reasons for revision

This is a new Safety Data Sheet (SDS).

## List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark  
 ESIS (The European Chemical Substances Information System), provided by the European Commission  
 Joint Research Centre in Ispra, Italy  
 Annex VI of the EU Council Directive 67/548/EEC  
 Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC  
 European Union (EU) Regulation No. 1272/2008 on the classification, labelling and packaging of  
 substances and mixtures (CLP Regulation)  
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

## Acronym &amp; Abbreviation Key:

|                   |   |
|-------------------|---|
| CLP               | Classification, Labeling & Packaging Regulation   |
| EC                | European Commission   |
| EU                | European Union  |
| US                | United States   |
| CAS               | Chemical Abstract Service   |
| EINECS            | European Inventory of Existing Chemical Substances  |
| REACH             | Registration, Evaluation, Authorization of Chemicals Regulation   |
| GHS               | Globally Harmonized System of Classification and Labeling of Chemicals  |
| LTEL              | Long term exposure limit  |
| STEL              | Short term exposure limit   |
| OEL               | Occupational exposure limit   |
| ppm               | Parts per million   |
| mg/m <sup>3</sup> | Milligrams per cubic meter  |
| TLV               | Threshold Limit Value   |
| ACGIH             | American Conference of Governmental Industrial Hygienists   |
| OSHA              | Occupational Safety & Health Administration   |
| PEL               | Permissible Exposure Limits   |
| VOC               | Volatile organic compounds  |
| g/l               | Grams per liter   |
| mg/kg             | Milligrams per kilogram   |
| N/A               | Not applicable  |
| LD50              | Lethal dose at 50%  |
| LC50              | Lethal concentration at 50%   |
| EC50              | Half maximal effective concentration  |
| IC50              | Half maximal inhibitory concentration   |
| PBT               | Persistent bioaccumulative toxic chemical   |
| vPvB              | Very persistent and very bioaccumulative  |
| EEC               | European Economic Community   |
| ADR               | International Transport of Dangerous Goods by Road  |
| RID               | International Transport of Dangerous Goods by Rail  |
| UN                | United Nations  |
| IMDG              | International Maritime Dangerous Goods Code   |
| IATA              | International Air Transport Association   |
| MARPOL            | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC               | International Bulk Container  |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.



## Safety Data Sheet

prepared to UN GHS Revision 3

## 1. Identification of the Substance/Mixture and the Company/Undertaking

- 1.1 Product Identifier: 209-EPW-B      Revision Date: 01/13/2015  
 Product Name: Peran WWHardener B      Supercedes Date: New SDS
- 1.2 Relevant identified uses of the substance or mixture and uses advised against: Component of multicomponent industrial coatings - Industrial use
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer: Flowcrete North America, Inc.  
 616 Spring Hill Drive, Suite 100  
 Spring, TX 77386  
 americas@flowcrete.com  
 www.flowcreteamericas.com  
 Tel: (936) 539-6700  
 Fax: (936) 539-6701
- Datasheet Produced by: Anderson, Paul - americas@flowcrete.com
- 1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

## 2. Hazard Identification

- 2.1 Classification of the substance or mixture

- 2.3 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

## 3. Composition/Information On Ingredients

- 3.1 Substances

Hazardous Ingredients

|                |                      |          |
|----------------|----------------------|----------|
| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>%</u> |
|----------------|----------------------|----------|

|                |                    |                              |                  |
|----------------|--------------------|------------------------------|------------------|
| <u>CAS-No.</u> | <u>GHS Symbols</u> | <u>GHS Hazard Statements</u> | <u>M-Factors</u> |
|----------------|--------------------|------------------------------|------------------|

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

GENERAL NOTES: No Information

AFTER INHALATION: Move to fresh air.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

Be aware the other materials in use may be classified as hazardous.

### 4.2 Most important symptoms and effects, both acute and delayed

Do not ingest Irritating to eyes and skin.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

### 5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. None.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

### 6.3 Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment

PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Do not freeze. Burning produces obnoxious and toxic fumes.

STORAGE CONDITIONS: Do not freeze. Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

| <u>Name</u> | <u>%</u> | <u>OSHA PEL</u> | <u>Company TLV</u> |
|-------------|----------|-----------------|--------------------|
|-------------|----------|-----------------|--------------------|

No hazardous items exist

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment. No personal respiratory protective equipment normally required.

EYE PROTECTION: Safety glasses.

HAND PROTECTION: Protective gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                                       |                |
|---------------------------------------|----------------|
| Appearance:                           | Various Colors |
| Physical State                        | Liquid         |
| Odor                                  | Slight         |
| Odor threshold                        | Not determined |
| pH                                    | Neutral        |
| Melting point /freezing point (°C)    | Not determined |
| Boiling point/range (°C)              | N.D. - N.D.    |
| Flash Point, (°C)                     | 93             |
| Evaporation rate                      | Not determined |
| Flammability (solid, gas)             | Not determined |
| Upper/lower flammability or explosive |                |

|  |                           |
|--|---------------------------|
|  | 999 - 0                   |
| limits                                 |                           |
| Vapour Pressure                        | Not determined            |
| Vapour density                         | ca 1.35 g/cm <sup>3</sup> |
| Relative density                       | Not determined            |
| Solubility in /Miscibility with water  | Soluble                   |
| Partition coefficient: n-octanol/water | Not determined            |
| Auto-ignition temperature (°C)         | Not determined            |
| Decomposition temperature (°C)         | Not determined            |
| Viscosity                              | Not determined            |
| Explosive properties                   | N/A                       |
| Oxidising properties                   | N/A                       |
| 9.2 Other information                  |                           |
| VOC Content g/l:                       | 26                        |
| Specific Gravity (g/cm <sup>3</sup> )  | 0.120                     |

## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

Do not freeze. Burning produces obnoxious and toxic fumes.

### 10.5 Incompatible materials

No special restrictions on storage with other products.

### 10.6 Hazardous decomposition products

No Information

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

Irritation: Irritating vapor can be formed when heated. May be mildly irritating upon ingestion or skin contact. Severely irritating to eyes.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below.

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> |
|----------------|----------------------|------------------|--------------------|-------------------|
|----------------|----------------------|------------------|--------------------|-------------------|

Data at the substance level is not available.

Additional Information:

No Information

## 12. Ecological Information

### 12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

### 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport Information

- |   |   |
|---|---|
| 14.1 UN number  |   |
| 14.2 UN proper shipping name  | Not regulated for transport according to DOT, IMDG and IATA regulations |
| Technical name  |   |
| 14.3 Transport hazard class(es)   | N/A   |
| Subsidiary shipping hazard  | N/A   |
| 14.4 Packing group  |   |
| 14.5 Environmental hazards  |   |
| 14.6 Special precautions for user   | Not applicable  |
| EmS-No.:  |   |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Not applicable  |

### 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

U.S. Federal Regulations: As follows -

#### CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product

#### Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product



**U.S. Clean Air Act**

|                              |                            |
|------------------------------|----------------------------|
| EPA Coating Category:        | Floor Coatings             |
| EPA VOC Content Limit (g/l): | 400                        |
| Product VOC Content (g/l)    | 26                         |
| Thinning Recommendations:    | None                       |
| Application Recommendations: | For professional use only. |

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

| <u>Chemical Name</u>         | <u>CAS-No.</u> |
|------------------------------|----------------|
| No Chemical Name Found       |                |
| water                        | 7732-18-5      |
| talc                         | 14807-96-6     |
| ethoxylated tetramethyldecyl | 9014-85-1      |
| silane treated fumed silica  | 68909-20-6     |

**Pennsylvania Right-To-Know**

The following non-hazardous ingredients are present in the product at greater than 3%.

| <u>Chemical Name</u>   | <u>CAS-No.</u> |
|------------------------|----------------|
| No Chemical Name Found |                |
| water                  | 7732-18-5      |
| talc                   | 14807-96-6     |

**California Proposition 65:**

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

No Proposition 65 Carcinogens exist in this product

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product

**International Regulations: As follows -****\* Canadian DSL:**

All chemical ingredients included on inventory or exempt.

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**16. Other Information**

Reasons for revision

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark  
 ESIS (The European Chemical Substances Information System), provided by the European Commission  
 Joint Research Centre in Ispra, Italy  
 Annex VI of the EU Council Directive 67/548/EEC  
 Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC  
 European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of  
 substances and mixtures (CLP Regulation)  
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

|                   |   |
|-------------------|---|
| CLP               | Classification, Labeling & Packaging Regulation   |
| EC                | European Commission   |
| EU                | European Union  |
| US                | United States   |
| CAS               | Chemical Abstract Service   |
| EINECS            | European Inventory of Existing Chemical Substances  |
| REACH             | Registration, Evaluation, Authorization of Chemicals Regulation   |
| GHS               | Globally Harmonized System of Classification and Labeling of Chemicals  |
| LTEL              | Long term exposure limit  |
| STEL              | Short term exposure limit   |
| OEL               | Occupational exposure limit   |
| ppm               | Parts per million   |
| mg/m <sup>3</sup> | Milligrams per cubic meter  |
| TLV               | Threshold Limit Value   |
| ACGIH             | American Conference of Governmental Industrial Hygienists   |
| OSHA              | Occupational Safety & Health Administration   |
| PEL               | Permissible Exposure Limits   |
| VOC               | Volatile organic compounds  |
| g/l               | Grams per liter   |
| mg/kg             | Milligrams per kilogram   |
| N/A               | Not applicable  |
| LD50              | Lethal dose at 50%  |
| LC50              | Lethal concentration at 50%   |
| EC50              | Half maximal effective concentration  |
| IC50              | Half maximal inhibitory concentration   |
| PBT               | Persistent bioaccumulative toxic chemical   |
| vPvB              | Very persistent and very bioaccumulative  |
| EEC               | European Economic Community   |
| ADR               | International Transport of Dangerous Goods by Road  |
| RID               | International Transport of Dangerous Goods by Rail  |
| UN                | United Nations  |
| IMDG              | International Maritime Dangerous Goods Code   |
| IATA              | International Air Transport Association   |
| MARPOL            | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC               | International Bulk Container  |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions

and recommendations are not followed.

No Information