## 1 Identification

- **Product identifier**
  - **Trade name:** 50184 World Class Waterborne Flexible Primer
  - **Article number:** 50184
  - **Application of the substance / the mixture** Coating

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    SEM Products Inc.
    1685 Overview Drive
    Rock Hill, SC 29730
    803 207 8225
  - **Information department:**
    cust_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
  - **Emergency telephone number:** CHEMTREC 1-800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  
  ![GHS07]

  Skin Irrit. 2  **H315**  Causes skin irritation.
  Eye Irrit. 2A  **H319**  Causes serious eye irritation.
  STOT SE 3  **H335**  May cause respiratory irritation.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**

  ![GHS07]

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  - NEPHELINE SYENITE
  - Talc

- **Hazard statements**
  - **H227**  Combustible liquid.
  - **H315**  Causes skin irritation.
  - **H319**  Causes serious eye irritation.
  - **H335**  May cause respiratory irritation.

- **Precautionary statements**
  - **P210**  Keep away from flames and hot surfaces. – No smoking.
  - **P261**  Avoid breathing dust/fume/gas/mist/vapors/spray
  - **P264**  Wash thoroughly after handling.
  - **P271**  Use only outdoors or in a well-ventilated area.

(Contd. on page 2)
Trade name: 50184 World Class Waterborne Flexible Primer

P280    Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312    Call a poison center/doctor if you feel unwell.
P321    Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405    Store locked up.
P501    Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)

- Health = 2
- Fire = 1
- Reactivity = 0

- HMIS-ratings (scale 0 - 4)

- HEALTH    Health = 2
- FIRE       Fire = 1
- REACTIVITY Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

* 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:
  Mixture: consisting of the following components.
  Weight percentages

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>37244-96-5</td>
<td>NEPHELINE SYENITE</td>
<td>13-30%</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>Talc</td>
<td>10-13%</td>
</tr>
<tr>
<td>107-98-2</td>
<td>1-methoxy-2-propanol</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>872-50-4</td>
<td>N-methyl-2-pyrroldione</td>
<td>≥0.1-% ≤1%</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>≥0.1-% ≤51%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
4 First-aid measures

· Description of first aid measures
  · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  · After swallowing: If symptoms persist consult doctor.

· Information for doctor:
  · Most important symptoms and effects, both acute and delayed No further relevant information available.
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents:
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture
  No further relevant information available.

· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:
  Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.

· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

  · PAC-1:
    | 107-98-2 | 1-methoxy-2-propanol | 100 ppm |
    | 13463-67-7 | titanium dioxide | 30 mg/m³ |
    | 872-50-4 | N-methyl-2-pyrrolidone | 30 ppm |
    | 108-88-3 | toluene | 67 ppm |
    | 1336-21-6 | ammonia solution 26% | 61 ppm |
    | 1333-86-4 | Carbon black | 9 mg/m³ |

  · PAC-2:
    | 107-98-2 | 1-methoxy-2-propanol | 160 ppm |
    | 13463-67-7 | titanium dioxide | 330 mg/m³ |
    | 872-50-4 | N-methyl-2-pyrrolidone | 32 ppm |
    | 108-88-3 | toluene | 560 ppm |
Trade name: 50184 World Class Waterborne Flexible Primer

<table>
<thead>
<tr>
<th>Chemical ID</th>
<th>Chemical Name</th>
<th>PEL Long-term value</th>
<th>PAC-3 Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1336-21-6</td>
<td>ammonia solution 26%</td>
<td>2,300 ppm</td>
<td>330 ppm</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>99 mg/m³</td>
<td></td>
</tr>
<tr>
<td>107-98-2</td>
<td>1-methoxy-2-propanol</td>
<td>660 ppm</td>
<td></td>
</tr>
<tr>
<td>1346-67-7</td>
<td>titanium dioxide</td>
<td>2,000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>872-50-4</td>
<td>N-methyl-2-pyrrolidone</td>
<td>190 ppm</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>3700* ppm</td>
<td></td>
</tr>
<tr>
<td>1336-21-6</td>
<td>ammonia solution 26%</td>
<td>2,300 ppm</td>
<td></td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>99 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

7 Handling and storage

- Handling:
  - Precautions for safe handling
    No special measures required.
  - Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
  - Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: Keep receptacle tightly sealed.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  At this time, the other constituents have no known exposure limits.

107-98-2 1-methoxy-2-propanol

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>REL Short-term value</th>
<th>REL Long-term value</th>
<th>TLV Short-term value</th>
<th>TLV Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>540 mg/m³, 150 ppm</td>
<td>360 mg/m³, 100 ppm</td>
<td>369 mg/m³, 100 ppm</td>
<td>184 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

872-50-4 N-methyl-2-pyrrolidone

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>WEEL Long-term value</th>
<th>Skin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 ppm</td>
<td></td>
</tr>
</tbody>
</table>

108-88-3 toluene

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>PEL Long-term value</th>
<th>Ceiling limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>200 ppm</td>
<td>300, 500* ppm</td>
</tr>
<tr>
<td></td>
<td>*10-min peak per 8-hr shift</td>
<td></td>
</tr>
</tbody>
</table>
Trade name: 50184 World Class Waterborne Flexible Primer

<table>
<thead>
<tr>
<th>REL</th>
<th>Short-term value: 560 mg/m³, 150 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Long-term value: 375 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 75 mg/m³, 20 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:
  - 872-50-4 N-methyl-2-pyrrolidone
    - BEI 100 mg/L
      - Medium: urine
      - Time: end of shift
      - Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

  - 108-88-3 toluene
    - BEI 0.02 mg/L
      - Medium: blood
      - Time: prior to last shift of workweek
      - Parameter: Toluene
    - 0.03 mg/L
      - Medium: urine
      - Time: end of shift
      - Parameter: Toluene
    - 0.3 mg/g creatinine
      - Medium: urine
      - Time: end of shift
      - Parameter: o-Cresol with hydrolysis (background)

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes and skin.
  - Breathing equipment:
    - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  - Protection of hands:
    - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Material of gloves
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Trade name: 50184 World Class Waterborne Flexible Primer

- **Penetration time of glove material**
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
  Tightly sealed goggles

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### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
  - **Form:** Liquid
  - **Appearance:** According to product specification
  - **Color:** Characteristic
  - **Odor:** Not determined.
  - **Odor threshold:**
  - **pH-value at 20 °C:** 8.5
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** 100 °C
  - **Flash point:** 93 °C
  - **Flammability (solid, gaseous):** Not applicable.
  - **Decomposition temperature:**
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.
  - **Explosion limits:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Vapor pressure at 20 °C:** 23 hPa
  - **Density at 20 °C:** 1.25251 g/cm³
  - **Relative density**
  - **Vapor density**
  - **Evaporation rate**
  - **Solubility in / Miscibility with**
    - **Water:** Not miscible or difficult to mix.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**
    - **Dynamic:** Not determined.
    - **Kinematic:** Not determined.
  - **Solvent content:**
    - **Organic solvents:** 6.3 %
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: Irritant to skin and mucous membranes.
      - on the eye: Irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    | Substance                  | Category |
    |----------------------------|----------|
    | 14807-96-6 Talc            | 3        |
    | 13463-67-7 titanium dioxide| 2B       |
    | 108-88-3 toluene           | 3        |
    | 1333-86-4 Carbon black    | 2B       |

  - NTP (National Toxicology Program)
    None of the ingredients is listed.

  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
贸名: 50184 World Class Waterborne Flexible Primer

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
  - **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
  - **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
  - **DOT, ADR, ADN, IMDG, IATA** Void
- **Class**
  - Void
- **Packing group**
  - **DOT, ADR, IMDG, IATA** Void
- **Environmental hazards:**
  - **Marine pollutant:** No
- **Special precautions for user**
  - Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.
- **UN "Model Regulation":**
  - Void

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - Section 355 (extremely hazardous substances):
    None of the ingredient is listed.
### Section 313 (Specific toxic chemical listings):

<table>
<thead>
<tr>
<th>Chemical ID</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>14807-96-6</td>
<td>Talc</td>
</tr>
<tr>
<td>872-50-4</td>
<td>N-methyl-2-pyrrolidone</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
</tr>
<tr>
<td>1336-21-6</td>
<td>ammonia solution 26%</td>
</tr>
</tbody>
</table>

### TSCA (Toxic Substances Control Act):

<table>
<thead>
<tr>
<th>Chemical ID</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>14807-96-6</td>
<td>Talc</td>
</tr>
<tr>
<td>107-98-2</td>
<td>1-methoxy-2-propanol</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
</tr>
<tr>
<td>29911-28-2</td>
<td>Dipropylene glycol n-butyl ether</td>
</tr>
<tr>
<td>872-50-4</td>
<td>N-methyl-2-pyrrolidone</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
</tr>
<tr>
<td>51200-87-4</td>
<td>4,4-dimethyl-1,3-oxazolidine</td>
</tr>
<tr>
<td>11138-66-2</td>
<td>Xanthan gum</td>
</tr>
<tr>
<td>1336-21-6</td>
<td>ammonia solution 26%</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water</td>
</tr>
</tbody>
</table>

### TSCA new (21st Century Act) (Substances not listed)

<table>
<thead>
<tr>
<th>Chemical ID</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>37244-96-5</td>
<td>NEPHELINE SYENITE</td>
</tr>
</tbody>
</table>

### Proposition 65

- **Chemicals known to cause cancer:**
  - 13463-67-7 titanium dioxide
  - 1333-86-4 Carbon black

- **Chemicals known to cause reproductive toxicity for females:**
  - None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**
  - None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
  - 872-50-4 N-methyl-2-pyrrolidone
  - 108-88-3 toluene

### Cancerogenity categories

- **EPA (Environmental Protection Agency)**
  - 108-88-3 toluene II

- **TLV (Threshold Limit Value established by ACGIH)**
  - 14807-96-6 Talc A4
  - 13463-67-7 titanium dioxide A4
  - 108-88-3 toluene A4
  - 1333-86-4 Carbon black A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 13463-67-7 titanium dioxide A4
  - 1333-86-4 Carbon black A4

### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).
Trade name: 50184 World Class Waterborne Flexible Primer

- **Hazard pictograms**

  GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  NEPHELINE SYENITE
  Talc

- **Hazard statements**
  H227 Combustible liquid.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.

- **Precautionary statements**
  P210 Keep away from flames and hot surfaces. – No smoking.
  P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  P264 Wash thoroughly after handling.
  P271 Use only outdoors or in a well-ventilated area.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P302+P352 If on skin: Wash with plenty of water.
  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P312 Call a poison center/doctor if you feel unwell.
  P321 Specific treatment (see on this label).
  P362+P364 Take off contaminated clothing and wash it before reuse.
  P332+P313 If skin irritation occurs: Get medical advice/attention.
  P337+P313 If eye irritation persists: Get medical advice/attention.
  P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  P403+P235 Store in a well-ventilated place. Keep cool.
  P405 Store locked up.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** Rita Joiner (rjoiner@semproducts.com)
- **Date of preparation / last revision** 03/14/2018 / 10
- **Abbreviations and acronyms:**
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Trade name: 50184 World Class Waterborne Flexible Primer

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- * Data compared to the previous version altered.