SAFETY DATA SHEET

OPQ YELLOW

Section 1. Identification

GHS product identifier : OPQ YELLOW
Chemical name : Mixture
CAS number : Mixture
Other means of identification : CC10215839
Product type : liquid

Relevant identified uses of the substance or mixture and uses advised against
Product use : Industrial applications. Plastics.

Supplier's details : AVIENT CORPORATION
ColorMatrix Group Inc.
680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA
+1 216 622 0100

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements
Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label elements : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : Mixture
Other means of identification : CC10215839

CAS number/other identifiers

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>&gt;= 25 - &lt;= 50</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>&gt;= 1 - &lt;= 3</td>
<td>7631-86-9</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable
for breathing. Get medical attention if symptoms occur. In case of
inhalation of decomposition products in a fire, symptoms may be
delayed. The exposed person may need to be kept under medical
surveillance for 48 hours.

Skin contact  :  Flush contaminated skin with plenty of water. Remove contaminated
clothing and shoes. Get medical attention if symptoms occur.

Ingestion    :  Wash out mouth with water. Remove victim to fresh air and keep at
rest in a position comfortable for breathing. If material has been
swallowed and the exposed person is conscious, give small quantities
of water to drink. Do not induce vomiting unless directed to do so by
medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

Indication of immediate medical attention and special treatment needed, if necessary

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes to physician</td>
<td>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>Specific treatments</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Protection of first-aiders</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable extinguishing media</td>
<td>In case of fire, use water spray (fog), foam, dry chemical or CO₂.</td>
</tr>
</tbody>
</table>
Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical:
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:
Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters:
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions:
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill:
Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill:
Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in
container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>OSHA PEL 1989 (1989-03-01)</td>
</tr>
<tr>
<td></td>
<td>TWA 10 mg/m3 Form: Total dust</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (1993-06-30)</td>
</tr>
<tr>
<td></td>
<td>TWA 15 mg/m3 Form: Total dust</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (1996-05-18)</td>
</tr>
<tr>
<td></td>
<td>TWA 10 mg/m3</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>NIOSH REL (1994-06-01)</td>
</tr>
<tr>
<td></td>
<td>TWA 6 mg/m3</td>
</tr>
</tbody>
</table>
Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using thelavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state: liquid [liquid]
Color: YELLOW
Odor: Faint odor.
Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Not available.

Burning time : Not available.

Burning rate : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits

Lower: Not available.
Upper: Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : Not available.

Solubility : Not available.

Solubility in water : insoluble in water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity

Dynamic: Not available.
Kinematic: Not available.

Aerosol product

Heat of combustion : Not available.

Ignition distance : Not available.

Enclosed space ignition - Time equivalent : Not available.

Enclosed space ignition - Deflagration density : Not available.

Flame height : Not available.

Flame duration : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Keep away from extreme heat and oxidizing agents.
Incompatible materials: Keep away from strong acids. Oxidizer.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium oxide (TiO₂)</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male</td>
<td>6.82 Mg/l</td>
<td>4 h</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Mixture. Not fully tested.

##### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hrs</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Mixture. Not fully tested.

Skin

Eyes

Respiratory

Sensitization

Conclusion/Summary: Mixture. Not fully tested.

Skin

Respiratory

Mutagenicity

Conclusion/Summary: Mixture. Not fully tested.

Carcinogenicity

Conclusion/Summary: Mixture. Not fully tested.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
</table>
Reproductive toxicity

Conclusion/Summary  :  Mixture. Not fully tested.

Teratogenicity

Conclusion/Summary  :  Mixture. Not fully tested.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on the likely routes of exposure
Not available.

Potential acute health effects

Eye contact  :  No known significant effects or critical hazards.
Inhalation  :  No known significant effects or critical hazards.
Skin contact  :  No known significant effects or critical hazards.
Ingestion  :  No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact  :  No specific data.
Inhalation  :  No specific data.
Skin contact  :  No specific data.
Ingestion  :  No specific data.

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

Short term exposure

Potential immediate effects  :  Not available.
Potential delayed effects  :  Not available.

Long term exposure

Potential immediate effects  :  Not available.
Potential delayed effects: Not available.

Potential chronic health effects

Conclusion/Summary: Mixture. Not fully tested.

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral</th>
<th>Dermal</th>
<th>Inhalation (gases)</th>
<th>Inhalation (vapors)</th>
<th>Inhalation (dusts and mists)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPQ YELLOW</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>6.82 Mg/l</td>
</tr>
</tbody>
</table>

Other information: This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>Acute LC50 &gt; 1,000 Mg/l Marine water</td>
<td>Fish - Fundulus heteroclitus</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3 Mg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia dubia</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6.5 Mg/l Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>48 h</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.
Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information


International Air ICAO/IATA : Not classified as dangerous goods under transport regulations.
International Water        : Not classified as dangerous goods under transport regulations.
IMO/IMDG

Section 15. Regulatory information

U.S. Federal regulations

<table>
<thead>
<tr>
<th>Regulation Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States - TSCA 12(b) - Chemical export notification</td>
<td>None of the components are listed.</td>
</tr>
<tr>
<td>United States - TSCA 4(a) - ITC Priority list</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 4(a) - Proposed test rules</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 4(f) - Priority risk review</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 5(a)2 - Final significant new use rules</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 5(a)2 - Proposed significant new use rules</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 6 - Final risk management</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 6 - Proposed risk management</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 8(a) - Chemical risk rules</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 8(a) - Dioxin/Furane precursor</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 8(a) - Chemical Data Reporting (CDR)</td>
<td>Not determined</td>
</tr>
<tr>
<td>United States - TSCA 8(a) - Preliminary assessment report (PAIR)</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 8(c) - Significant adverse reaction (SAR)</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 8(d) - Health and safety studies</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 4(a) - Final Test Rules</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - TSCA 5(e) - Substances consent order</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - EPA Clean water act (CWA) section 307 - Priority pollutants</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - EPA Clean water act (CWA) section 311 - Hazardous substances</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances</td>
<td>Not listed</td>
</tr>
<tr>
<td>United States - Department of commerce - Precursor chemical</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Clean Air Act Section 112(b) : Not listed
Hazardous Air Pollutants (HAPs) : Not listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302) 
not applicable

SARA 311/312 
Classification : Not applicable.

Composition/information on ingredients

No products were found.

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>&gt;= 25 - &lt;= 50</td>
<td>CARCINOGENICITY - Category 2</td>
</tr>
<tr>
<td>Silica</td>
<td>&gt;= 1 - &lt;= 3</td>
<td>EYE IRRITATION - Category 2B</td>
</tr>
</tbody>
</table>

Not applicable.

State regulations
Massachusetts : None of the components are listed.
New York : None of the components are listed.
New Jersey : The following components are listed:
  Titanium dioxide

Pennsylvania : The following components are listed:
  Titanium dioxide
  Silica, amorphous
  Aluminum hydroxide

California Prop. 65

⚠️ WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
United States inventory (TSCA 8b) : All components are active or exempted.

Canada inventory : All components are listed or exempted.

**International regulations**

**Inventory list**

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Canada</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>China</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Europe inventory</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Japan</td>
<td>Not determined.</td>
</tr>
<tr>
<td>New Zealand</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Philippines</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Republic of Korea</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Taiwan</td>
<td>All components are listed or exempted.</td>
</tr>
<tr>
<td>Turkey</td>
<td>Not determined.</td>
</tr>
<tr>
<td>United States</td>
<td>All components are active or exempted.</td>
</tr>
</tbody>
</table>

**Section 16. Other information**

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>/</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

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

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

**History**

<table>
<thead>
<tr>
<th>Date and Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
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<td>10/28/2021</td>
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<td>10/27/2021</td>
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<td>02/26/2019</td>
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**Key to abbreviations**

<table>
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<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration Factor</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labelling of</td>
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Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

References : Not available.

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