

# SAFETY DATA SHEET

Kevin Murphy COLOR.ME cream.lightener

SDS Revision: 2.0




SDS Revision Date: 10Sep20

## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

|     |                                |   |
|-----|--------------------------------|---|
| 1.1 | Product Identifier:            | Kevin Murphy COLOR.ME cream.lightener   |
|     | Product Codes:                 | AAKEVIN11592, DEDI01/33B  |
| 1.2 | Relevant Identified Uses:      | Personal Care - Hair Lightener for Professional Use Only  |
|     | Uses Advised Against:          | Not to be used for lightening eyelashes or eyebrows. To do so may cause blindness.  |
| 1.3 | Supplier of Safety Data Sheet: | Kevin Murphy Business Services Pty Ltd<br>47 Discovery, Suite 230, Irvine, CA 92618, USA<br>949-407-5100<br>KMRegulatory@kevinmurphy.com.au |
|     |                                | Kevin Murphy Europe A/S<br>Refshalevej 163A, DK-1432 Copenhagen K<br>+45 20 20 34 56<br>KMRegulatory@kevinmurphy.com.au                     |
| 1.4 | Emergency Telephone Number:    | <b>CHEMTEL: 1-800-255-3924 (North America) +1-813-248-0585 (International)</b>  |

## SECTION 2: Hazards Identification

The mixture has been assessed for its physical, health and environmental hazards, and the following classification applies.

|     |   |  |  |
|-----|---|--|--|
| 2.1 | Classification of the Substance or Mixture: | <b>Physical Hazards:</b> Oxidizing - Category 3<br><b>Health Hazards:</b><br>Acute Toxicity (Oral) - Category 4<br>Skin Irritation - Category 2<br>Eye Irritation - Category 2A<br>Skin Sensitization - Category 1<br>Respiratory Sensitization - Category 1<br>STOT-SE - Category 3<br><b>Environmental Hazards:</b> Not Classified   |  |
| 2.2 | Labeling Elements:                          | <b>Hazard Signal Word:</b> Danger<br><b>Hazard Statements:</b><br>H272: May intensify fire; oxidizer<br>H302: Harmful if swallowed<br>H315: Causes skin irritation<br>H319: Causes serious eye irritation<br>H317: May cause an allergic skin reaction<br>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled<br>H335: May cause respiratory irritation<br><b>Precautionary Statements:</b><br>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P220: Keep away from clothing and other combustible materials.<br>P261: Avoid breathing dust/fume/vapours.<br>P264: Wash hands thoroughly after handling.<br>P270: Do not eat, drink or smoke when using this product.<br>P271: Use only outdoors or in a well-ventilated area.<br>P280: Wear protective gloves, protective clothing and eye protection.<br>P284: Wear respiratory protection.<br>P272: Contaminated work clothing should not be allowed out of the workplace.<br>P362+P364: Take off contaminated clothing and wash it before reuse.<br>P301+P317+P330: IF SWALLOWED: Get medical help. Rinse mouth.<br>P302+P352: IF ON SKIN: Wash with plenty of soap and water.<br>P333+P317: If skin irritation or rash occurs: Get medical help.<br>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P317: If eye irritation persists: Get medical help.<br>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P342+P316: If experiencing respiratory symptoms: Get emergency medical help immediately. | <b>Hazard Pictograms:</b><br><br><br> |

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|     |                | <p>P319: Get medical help if you feel unwell.</p> <p>P101: If medical advice is needed, have product container or label at hand.</p> <p>P102: Keep out of reach of children.</p> <p>P103: Read label before use.</p> <p>P403+P233: Store in well-ventilated place. Keep container tightly closed.</p> <p>P501: Dispose of contents and container in accordance with local, regional and national regulations.</p> |  |
| 2.3 | Other Hazards: | No known other hazards which do not result in classification. Mixture does not meet the criteria for PBTs or vPvBs in accordance to Regulation (EC) No. 1907/2006, Annex XIII.  |  |

## SECTION 3: Composition / Information on Ingredients

### 3.2 Mixtures:

| Chemical Name           | CAS No.   | EC No.    | Hazard Classification  | Hazard Statements  | % by Weight |
|-------------------------|-----------|-----------|--|--|-------------|
| Potassium Persulfate    | 7727-21-1 | 231-781-8 | <p>Oxidizing Solids, Category 3</p> <p>Acute Toxicity (Oral), Category 4</p> <p>Skin Irritation, Category 2</p> <p>Eye Irritation, Category 2A</p> <p>Skin Sensitization, Category 1</p> <p>Respiratory Sensitization, Category 1</p> <p>STOT-SE, Category 3</p> | <p>H272: May intensify fire; oxidizer</p> <p>H302: Harmful if swallowed</p> <p>H315: Causes skin irritation</p> <p>H319: Causes serious eye irritation</p> <p>H317: May cause an allergic skin reaction</p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H335: May cause respiratory irritation</p> | 1 - 10      |
| Ammonium Persulfate     | 7727-54-0 | 231-786-5 | <p>Oxidizing Solids, Category 3</p> <p>Acute Toxicity (Oral), Category 4</p> <p>Skin Irritation, Category 2</p> <p>Eye Irritation, Category 2A</p> <p>Skin Sensitization, Category 1</p> <p>Respiratory Sensitization, Category 1</p> <p>STOT-SE, Category 3</p> | <p>H272: May intensify fire; oxidizer</p> <p>H302: Harmful if swallowed</p> <p>H315: Causes skin irritation</p> <p>H319: Causes serious eye irritation</p> <p>H317: May cause an allergic skin reaction</p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H335: May cause respiratory irritation</p> | 1 - 10      |
| Sodium Metasilicate (1) | 6834-92-0 | 229-912-9 | <p>Metal Corrosion, Category 1</p> <p>Skin Corrosion, Category 1B</p> <p>Eye Damage, Category 1</p> <p>STOT-SE, Category 3</p>   | <p>H290: May be corrosive to metals</p> <p>H314: Causes severe skin burns and eye damage</p> <p>H335: May cause respiratory irritation</p>   | 1 - 10      |
| Sodium Persulfate       | 7775-27-1 | 231-892-1 | <p>Oxidizing Solids, Category 3</p> <p>Acute Toxicity (Oral), Category 4</p> <p>Skin Irritation, Category 2</p> <p>Eye Irritation, Category 2A</p> <p>Skin Sensitization, Category 1</p> <p>Respiratory Sensitization, Category 1</p> <p>STOT-SE, Category 3</p> | <p>H272: May intensify fire; oxidizer</p> <p>H302: Harmful if swallowed</p> <p>H315: Causes skin irritation</p> <p>H319: Causes serious eye irritation</p> <p>H317: May cause an allergic skin reaction</p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H335: May cause respiratory irritation</p> | 1 - 10      |

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|----------------------|-------------|-----------|---|---|--------|
| Sodium Silicate (1)  | 1344-09-8   | 215-687-4 | Metal Corrosion, Category 1<br>Skin Corrosion, Category 1B<br>Eye Damage, Category 1<br>STOT-SE, Category 3 | H290: May be corrosive to metals<br>H314: Causes severe skin burns and eye damage<br>H335: May cause respiratory irritation | 1 - 10 |
| Titanium Dioxide (2) | 13463-67-7  | 236-675-5 | Not applicable  | Not applicable  | 1 - 10 |
| Kaolin (2)           | 1332-58-7   | 310-194-1 | Not applicable  | Not applicable  | 1 - 10 |
| Magnesium Oxide (2)  | 1309-48-4   | 215-171-9 | Not applicable  | Not applicable  | 1 - 10 |
| Silica (2)           | 112945-52-5 | 262-373-8 | Not applicable  | Not applicable  | < 1    |

(1) Sodium Metasilicate and Sodium Silicate may be corrosive to metals when mixed with an aqueous solution.

(2) Substance with a workplace exposure limit.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as physical, health or the environmental hazards, are PBTs or vPvBs, or have been assigned an occupational exposure limit within US OSHA regulations or EU OEL Directives, and hence require reporting in this section.

## SECTION 4: First Aid Measures

|     |  |   |
|-----|--|---|
| 4.1 | <b>Description of First Aid Measures:</b>                                      | <u>Ingestion:</u> In case of ingestion, do not induce vomiting without medical advice. Give victim several glasses of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.<br><u>Eyes:</u> In case of eye contact, flush with copious amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention in the event of an adverse reaction or if symptoms persist.<br><u>Skin:</u> If signs of irritation to the skin develop, wash the affected area with plenty of water and soap. Seek medical attention in the event of an adverse reaction or if symptoms persist.<br><u>Inhalation:</u> If respiratory distress or irritation occurs, remove victim to fresh air and keep comfortable for breathing. Seek immediate medical attention in the event of an adverse reaction, if symptoms persist, or if feeling unwell. |
| 4.2 | <b>Most Important Symptoms and Effects, Both Acute and Delayed:</b>            | May cause eye irritation. Symptoms may include stinging, tearing, and redness.<br>May cause skin irritation or an allergic skin reaction. Symptoms may include redness, itching, bumps, blisters, and swelling.<br>May cause respiratory irritation, allergic reaction, asthma symptoms/attacks or breathing difficulties if inhaled. Symptoms may include dry, scratchy or sore throat, postnasal drip, cough, wheezing, fever, tight chest, chest pain, muscle or body aches, shortness of breath or abnormal breathing.<br>May induce delayed skin sensitization, respiratory hypersensitivity, and asthma.  |
| 4.3 | <b>Indication of Immediate Medical Attention and Special Treatment Needed:</b> | Provide general supportive measures and treat symptomatically. No known specific antidotes.   |

## SECTION 5: Firefighting Measures

|     |   |   |
|-----|---|---|
| 5.1 | <b>Extinguishing Media:</b>                                   | <u>Suitable Extinguishing Media:</u> Water mist, dry chemical, foam, or carbon dioxide.<br><u>Unsuitable Extinguishing Media:</u> High volume water jet.                                |
| 5.2 | <b>Special Hazards Arising from the Substance or Mixture:</b> | <b>Warning!</b> May intensify fire; oxidizer. May produce corrosive and/or toxic fumes, including ammonia and oxides of sulfur and nitrogen on combustion.                              |
| 5.3 | <b>Advice for Firefighters:</b>                               | Wear self-contained breathing apparatus and full personal protective gear. Use standard firefighting procedures. In case of major fire or large quantities, fight fire from a distance. |

## SECTION 6: Accidental Release Measures

|     |   |   |
|-----|---|---|
| 6.1 | <b>Personal Precautions, Protective Equipment and Emergency Procedures:</b> | Avoid contact with skin, eyes and clothing. Avoid breathing fumes/vapours. Observe all personal protection equipment recommendations described in Section 8. Ventilate closed spaces before entering them. Keep unnecessary personnel away. |
| 6.2 | <b>Environmental Precautions:</b>   | Dike or contain spill to prevent from entering drains. Avoid direct release to drains, surface and ground water.  |

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| 6.3 | <b>Methods and Material for Containment and Cleaning Up:</b> | Clean up spills mechanically and with care using non-sparking tools. Avoid using combustible materials. Place all sweepings into suitable containers for disposal and move to a safe place. Wash small residues with plenty of water. |
| 6.4 | <b>Reference to Other Sections:</b>                          | For personnel protection, see Section 8. For safe handling and storage, see Section 7. For waste disposal, see Section 13.  |

## SECTION 7: Handling and Storage

|     |  |  |
|-----|--|--|
| 7.1 | <b>Precautions for Safe Handling:</b>                                | Utilize safe handling and transportation techniques to avoid spillage or rupture of the product. Ensure adequate ventilation in the workplace. Avoid formation of electro-static charges. Wear appropriate personal protective equipment (see Section 8). Avoid breathing fumes/vapours. Do not eat, drink or smoke while handling. Wash hands thoroughly after handling. Observe good hygiene practices. Never pour product residue back into storage container. Discard any unused product after mixing it with developers or bleaching lotions. |
| 7.2 | <b>Conditions for Safe Storage, Including Any Incompatibilities:</b> | Store in a cool, dry, and well-ventilated area away from direct sun-light. Do not store near heat, hot surfaces, sparks, open flames and other ignition sources. Store in original container and keep containers tightly closed. Protect from humidity/moisture. Store away from combustible and incompatible materials (see Section 10). Do not store near reducing agents, such as styling lotions and permanent wave solutions.   |
| 7.3 | <b>Specific End Use(s):</b>  | Professional use only.   |

## SECTION 8: Exposure Controls / Personal Protection

|                                 |   |  |                          |   |   |  |                     |
|---------------------------------|---|--|--------------------------|---|---|--|---------------------|
| 8.1                             | Control Parameters:   | CHEMICAL NAME  | CAS Number               | Occupational Exposure Limits  |   |  |                     |
|                                 |   |  |                          | OSHA PEL (TWA)  | NIOSH REL (TWA)   | ACGIH TLV  | EU IOELV - BOELV    |
|                                 |   | Potassium Persulfate   | 7727-21-1                | Not established   | Not established   | TWA: 0.1 mg/m <sup>3</sup>   | Not established (1) |
|                                 |   | Ammonium Persulfate  | 7727-54-0                | Not established   | Not established   | TWA: 0.1 mg/m <sup>3</sup>   | Not established (1) |
|                                 |   | Sodium Persulfate  | 7775-27-1                | Not established   | Not established   | TWA: 0.1 mg/m <sup>3</sup>   | Not established (1) |
|                                 |   | Kaolin   | 1332-58-7                | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (resp. fraction) | 10 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (resp. fraction) | TWA: 2 mg/m <sup>3</sup> (resp. fraction)                                      | Not established (1) |
|                                 |   | Magnesium Oxide  | 1309-48-4                | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (resp. fraction) | 10 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (resp. fraction) | TWA: 10 mg/m <sup>3</sup> (total dust)<br>3 mg/m <sup>3</sup> (resp. fraction) | Not established (1) |
|                                 |   | Silica, Amorphous  | 112945-52-5<br>7631-86-9 | 20 mppcf  | 6 mg/m <sup>3</sup>   | Not established  | Not established (1) |
|                                 |   | Titanium Dioxide   | 13463-67-7               | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (resp. fraction) | See Pocket Guide Appendix A   | TWA: 10 mg/m <sup>3</sup> (total dust)<br>3 mg/m <sup>3</sup> (resp. fraction) | Not established (1) |
|                                 |   | US IDHL: Silica, Amorphous - 3000 mg/m <sup>3</sup> ; Titanium Dioxide - 5000 mg/m <sup>3</sup>  |                          |   |   |  |                     |
|                                 | (1) Reference EU member state occupational exposure limits.                     |  |                          |   |   |  |                     |
|                                 | Recommended Monitoring Procedures:  | Workplace atmospheric monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference monitoring standards, such as US NIOSH and OSHA Measurement Methods, European Standards EN 689 and EN 482. Reference national guidance documents for methods for the determination of hazardous substances. |                          |   |   |  |                     |
| Biological Limit Values:        | This product does not contain substances with biological exposure limit values. |  |                          |   |   |  |                     |
| Derived No Effect Level (DNEL): | No information available  |  |                          |   |   |  |                     |

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|     | <b>Predicted No Effect Concentrations (PNEC):</b> | No information available   |
| 8.2 | <b>Exposure Controls:</b>                         |  |
|     | <b>Appropriate Engineering Controls:</b>          | Provide adequate ventilation in the workplace to maintain airborne levels below recommended exposure limits.   |
|     | <b>Eye/Face Protection:</b>                       | Wear protective eyewear (e.g., safety glasses with side-shield).   |
|     | <b>Skin and Hand Protection:</b>                  | Wear impermeable, protective gloves and protective clothing.   |
|     | <b>Respiratory Protection:</b>                    | If airborne exposure limits are exceeded, wear suitable respirator that meets current occupational health and safety standards.  |
|     | <b>Thermal Hazards:</b>                           | Refer to Section 5 for fire personal protective equipment.   |
|     | <b>Hygiene Measures:</b>                          | Do not eat, drink or smoke during product use or handling. Wash hands after handling. Observe good personal hygiene measures. Routinely wash work clothing and protective equipment. |
|     | <b>Environmental Exposure Controls:</b>           | Environmental manager must be informed of all major releases.  |

## SECTION 9: Physical and Chemical Properties

|     |   |   |
|-----|---|---|
| 9.1 | <b>Information on Basic Physical and Chemical Properties:</b> |   |
|     | <b>Appearance:</b>  | White to yellow, granulous cream                              |
|     | <b>Odor:</b>  | Characteristic  |
|     | <b>Odor Threshold:</b>  | No data available on this product                             |
|     | <b>pH:</b>  | 10.5 - 11.65 (aqueous dispersion 1g/100mL)                    |
|     | <b>Melting Point:</b>   | No data available on this product                             |
|     | <b>Freezing Point:</b>  | No data available on this product                             |
|     | <b>Initial Boiling Point/Boiling Range:</b>                   | No data available on this product                             |
|     | <b>Flashpoint:</b>  | No data available on this product                             |
|     | <b>Evaporation Rate:</b>                                      | No data available on this product                             |
|     | <b>Flammability (solid, gas):</b>                             | No data available on this product                             |
|     | <b>Upper/Lower Flammability or Explosive Limits:</b>          | No data available on this product                             |
|     | <b>Vapor Pressure:</b>  | No data available on this product                             |
|     | <b>Vapor Density:</b>   | No data available on this product                             |
|     | <b>Relative Density:</b>                                      | 1.24 - 1.44 g/mL  |
|     | <b>Solubility (in water):</b>                                 | Partially soluble   |
|     | <b>Partition Coefficient (n-octanol/water):</b>               | No data available on this product                             |
|     | <b>Autoignition Temperature:</b>                              | No data available on this product                             |
|     | <b>Decomposition Temperature:</b>                             | > 65°C (149°F)  |
|     | <b>Viscosity:</b>   | No data available on this product                             |
|     | <b>Explosive Properties:</b>                                  | No data available on this product                             |
|     | <b>Oxidizing Properties:</b>                                  | Oxidizing solid - category 3                                  |
| 9.2 | <b>Other Information:</b>                                     | No relevant additional information available on this product. |

## SECTION 10: Stability and Reactivity

|      |                            |  |
|------|----------------------------|--|
| 10.1 | <b>Reactivity:</b>         | The product is not reactive under normal conditions of storage, handling and transport (see Section 7).  |
| 10.2 | <b>Chemical Stability:</b> | The product is stable under normal handling and storage conditions, up to 65°C. Above this temperature, the product starts to slowly decompose, giving rise to small quantities of oxygen and ammonia. At approximately 150°C, decomposition becomes fast and auto-accelerating, and generates oxygen which can give rise to relevant fires. Humidity/moisture can considerably lower the decomposition temperature. |

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| 10.3 | <b>Possibility of Hazardous Reactions:</b> | Build up of dangerous/toxic fumes possible in cases of fire/high temperature. May react with ammonium salt solutions resulting in ammonia gas. |
| 10.4 | <b>Conditions to Avoid:</b>                | Avoid heat, sparks, open flame, and other ignition sources, direct sunlight, and moisture. Avoid friction that may build up electric charge.   |
| 10.5 | <b>Incompatible Materials:</b>             | Strong acids, bases, and reducing agents; halogens, metals, and combustive and flammable materials. Do not use metallic bowls or stirrers.     |
| 10.6 | <b>Hazardous Decomposition Products:</b>   | Ammonia, oxides of sulfur and nitrogen on combustion. Decomposition by moisture to form oxygen and ozone.                                      |

## SECTION 11: Toxicological Information

|      |   |   |
|------|---|---|
| 11.1 | <b>Information on Toxicological Effects:</b>        | No data available on the product. Health effects of the product are derived from ingredient literature review and concentrations present. If available, relevant toxicological properties of the components that contribute to classification of the mixture in Section 3 are provided. Evaluations for the mixture may be based on additional information not shown. The product uses ingredients presented herein from suppliers that have not tested the ingredients on animals for cosmetic purposes since the 11-March-2009 time table set forth by the EU Commission in accordance with EU Cosmetic Directive (EC) No. 1223/2009.   |
|      | <b>Potential Acute Health Effects and Symptoms:</b> | <p><b>Eye Exposure:</b> May cause eye irritation. Symptoms may include stinging, tearing, and redness.</p> <p><b>Skin Exposure:</b> May cause skin irritation. May cause an allergic skin reaction. Symptoms may include redness, itching, bumps, blisters, and swelling.</p> <p><b>Ingestion:</b> May cause gastrointestinal harm if swallowed. Symptoms may include irritation, discomfort, burning, abdominal pain, cramps, nausea, indigestion, vomiting, and diarrhea.</p> <p><b>Inhalation:</b> May cause respiratory irritation. May cause allergic respiratory symptoms, asthma symptoms/attacks or breathing difficulties if inhaled. Symptoms may include dry, scratchy or sore throat, postnasal drip, cough, wheezing, fever, tight chest, chest pain, muscle or body aches, shortness of breath or abnormal breathing.</p>   |
|      | <b>Potential Chronic Health Effects:</b>            | May induce skin sensitization, respiratory hypersensitivity, and asthma.  |
|      | <b>Acute Toxicity:</b>                              | <p><b>Product Summary/Conclusion:</b> Harmful if swallowed.</p> <p><b>Potassium, Ammonium and Sodium Persulfate:</b> CAS 7727-21-1, 7727-54-0, 7775-27-1<br/> Oral LD50: 700 - 1130 mg/kg (Rat)<br/> Dermal LD50: &gt;2,000 mg/kg (Rabbit)<br/> Inhalation LC50: &gt; 2.95 mg/L, 4 hour (Rat)</p> <p><b>Sodium Metasilicate:</b> CAS 6834-92-0<br/> Oral LD50: 1152 - 1349 mg/kg (Rat)<br/> Dermal LD50: &gt;5,000 mg/kg (Rat)<br/> Inhalation LC50: &gt; 2.06 g/m<sup>3</sup>, 4 hour (Rat)</p>  |
|      | <b>Skin Corrosion/Irritation:</b>                   | <p><b>Product Summary/Conclusion:</b> Causes skin irritation.</p> <p><b>Potassium, Ammonium and Sodium Persulfate:</b> CAS 7727-21-1, 7727-54-0, 7775-27-1<br/> Acute Dermal Irritation/Corrosion, OECD 404, Rabbit (&gt;99% active): Not irritating<br/> Human case studies: Irritating</p> <p><b>Sodium Metasilicate:</b> CAS 6834-92-0<br/> Acute Dermal Irritation/Corrosion, OECD 404, Rabbit: Corrosive (degree of irritation dependent on concentration, water content and pH. Anhydrous powder: Not irritating, 50% aqueous solution: Corrosive, 10% aqueous solution: Irritating)</p> <p><b>Sodium Silicate:</b> CAS 1344-09-8<br/> Acute Dermal Irritation/Corrosion, OECD 404, Rabbit (53.5% active, Molar Ratio 1.6, pH 12.8): Corrosive<br/> Degree of irritation dependent on molar ratio (MR) and concentration. Effects decrease with increasing molar ratio super imposed by increasing irritancy with increasing concentration. MR 2.0 - 2.4: Irritating; MR 2.8 - 3.3: Not irritating.</p> |
|      | <b>Serious Eye Damage/Irritation:</b>               | <p><b>Product Summary/Conclusion:</b> Causes serious eye irritation.</p> <p><b>Potassium, Ammonium and Sodium Persulfate:</b> CAS 7727-21-1, 7727-54-0, 7775-27-1<br/> Acute Eye Irritation/Corrosion, OECD 405, Rabbit (&gt;99% active): Slightly irritating<br/> Human case studies: Irritating</p> <p><b>Sodium Metasilicate:</b> CAS 6834-92-0<br/> US Federal Hazardous Substance Act, CFR 1500.42, Rabbit (10% solution): Irritating</p>  |

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|  |   | <b>Sodium Silicate:</b> CAS 1344-09-8<br>Ex Vivo Rabbit Eye Irritation Study (undiluted): Irreversible eye damage<br>Degree of irritation dependent on molar ratio (MR) and concentration. Effects decrease with increasing molar ratio super imposed by increasing irritancy with increasing concentration. MR 2.0 - 2.4: Irritating; MR 2.8 - 3.3: Not irritating.  |
|  | <b>Respiratory or Skin Sensitization:</b> | <b>Product Summary/Conclusion:</b> May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br><b>Potassium, Ammonium and Sodium Persulfate:</b> CAS 7727-21-1, 7727-54-0, 7775-27-1<br>Local Lymph Node Assay, OECD 429, Mouse: Moderate skin sensitizer<br>Human epidemiological studies and case reports: Respiratory sensitizer<br><b>Sodium Metasilicate:</b> CAS 6834-92-0<br>Local Lymph Node Assay, OECD 429, Mouse: Not sensitizing |
|  | <b>Germ Cell Mutagenicity:</b>            | No components at levels greater than or equal to 0.1% are listed as a mutagen in EU Regulation (EC) No. 1272/2008 [CLP].  |
|  | <b>Carcinogenicity:</b>                   | <b>Product Summary/Conclusion:</b> Based on available data, classification criteria are not met.<br><b>Titanium Dioxide:</b> CAS 13463-67-7<br>Listed as category 2 suspected carcinogen by inhalation in EU Regulation (EC) No. 1272/2008 [CLP]. Applies to titanium dioxide-containing products in powder form with 1% or more of titanium dioxide with aerodynamic diameter $\leq 10$ microns. Listed as possible carcinogenic to humans (Group 2B) by IARC.                                     |
|  | <b>Reproductive Toxicity:</b>             | No components at levels greater than or equal to 0.1% are listed as a reproductive toxin in EU Regulation (EC) No. 1272/2008 [CLP].   |
|  | <b>STOT-Single Exposure:</b>              | May cause respiratory irritation.   |
|  | <b>STOT-Repeated Exposure:</b>            | Based on available data, classification criteria are not met.   |
|  | <b>Aspiration Hazard:</b>                 | Based on available data, classification criteria are not met.   |
|  | <b>Other Information:</b>                 | No other relevant information available.  |

## SECTION 12: Ecological Information

|      |   |  |
|------|---|--|
| 12.1 | <b>Toxicity:</b>                              | No data available on the mixture. Environmental toxicity of the mixture derived from ingredient information, concentrations present and in accordance with EU Regulation (EC) No. 1272/2008 [CLP/GHS].<br><b>Product Summary/Conclusion:</b> Based on available data, classification criteria are not met. |
| 12.2 | <b>Persistence and Degradability:</b>         | No data available  |
| 12.3 | <b>Bioaccumulative Potential:</b>             |  |
|      | <b>Partition Coefficient: n-octanol/water</b> | Not available  |
|      | <b>Bioconcentration Factor (BCF):</b>         | Not available  |
| 12.4 | <b>Mobility in Soil:</b>                      | No data available  |
| 12.5 | <b>Results of PBT and vPvB Assessment:</b>    | Not available  |
| 12.6 | <b>Other Adverse Effects:</b>                 | No other known adverse environmental effects or critical hazards.  |

## SECTION 13: Disposal Considerations



|      |                                 |  |
|------|---------------------------------|--|
| 13.1 | <b>Waste Treatment Methods:</b> |  |
|      | <b>Waste Disposal:</b>          | Dispose of waste material and containers in accordance with appropriate local, regional, and national regulations. Do not dispose through sewage. Packagings should be completely emptied and taken to an approved waste handling site for recycling or disposal. Packagings which could not be cleansed should be disposed of as product waste. |
|      | <b>Special Precautions:</b>     | U.S. EPA Waste Number: RCRA D001/Unlisted Ignitable Hazardous Waste  |

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| SECTION 14: Transport Information |   |   |  |               |               |               |                    |
|-----------------------------------|---|---|--|---------------|---------------|---------------|--------------------|
|                                   |   | US DOT (Ground)<br>Limited Quantities   | IMDG<br>(Sea)  | IATA<br>(Air) | ADR<br>(Road) | RID<br>(Rail) | ADN<br>(Waterways) |
| 14.1                              | UN Number:  | Not applicable  | UN1479   |               |               |               |                    |
| 14.2                              | UN Proper Shipping Name:  | Not applicable  | Oxidizing Solid, N.O.S. (potassium persulfate, ammonium persulfate, sodium persulfate) |               |               |               |                    |
| 14.3                              | Transport Hazard Classes:   | Not applicable  | 5.1  |               |               |               |                    |
|                                   |   |                                        |     |               |               |               |                    |
| 14.4                              | Packing Group:  | III   | III  |               |               |               |                    |
| 14.5                              | Environmental Hazards:  | None  | None   |               |               |               |                    |
| 14.6                              | Special Precautions for User:                                       | Transport within user's premises: Transport in closed containers that are upright and secure. Read SDS before handling. |  |               |               |               |                    |
| 14.7                              | Transport in Bulk According to Annex II of Marpol and the IBC Code: | Not applicable  |  |               |               |               |                    |

| SECTION 15: Regulatory Information |   |
|------------------------------------|---|
| 15.1                               | <p><b>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:</b></p> <p><b>EU Regulation (EC) No. 1907/2006 REACH Article 59(10) and Annexes XIV and XVII, as amended :</b> No components in this product are listed.</p> <p><b>EU Directive 2012/18/EU on major accident hazards involving dangerous substances:</b> Potassium Persulfate (CAS 7727-21-1); Ammonium Persulfate (CAS 7727-54-0); Sodium Persulfate (7775-27-1); Sodium Metasilicate (CAS 6834-92-0); Sodium Silicate (CAS 1344-09-8)</p> <p><b>EU Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended:</b> No components in this product are listed.</p> <p><b>EU Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I, as amended:</b> No components in this product are listed.</p> <p><b>EU Regulation (EC) No. 649/2012 concerning export/import of dangerous chemicals, Annex I (parts 1 - 3) &amp; Annex V, as amended:</b> No components in this product are listed.</p> <p><b>EU Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry:</b> No components in this product are listed.</p> <p><b>National Regulations of EU Member States:</b> Follow national regulations for work with chemical agents.</p> <p><b>German Water Hazard Class (WGK) for Mixture:</b> WGK 1</p> <p><b>US SARA 302 TPQ:</b> No components in this product are listed at levels that require reporting.</p> <p><b>US SARA 304 RQ:</b> No components in this product are listed at levels that require reporting.</p> <p><b>US SARA 311/312:</b> Not applicable - product is exempt.</p> <p><b>US SARA 313:</b> No components in this product are listed at levels that require reporting.</p> <p><b>US CERCLA RQ:</b> RCRA D001/Unlisted Ignitable Hazardous Waste: Potassium Persulfate, Ammonium Persulfate, Sodium Persulfate = 100 lbs</p> <p><b>US Clean Air Act (CAA) Section 112(r) TQ:</b> No components in this product are listed at levels that require reporting.</p> <p><b>US Clean Water Act (CWA):</b> No components in this product are listed.</p> <p><b>US State Regulations:</b> Follow state regulations for work with chemical agents.</p> |
| 15.2                               | <p><b>Chemical Safety Assessment:</b></p> <p>No Chemical Safety Assessment has been carried out.</p>  |

| SECTION 16: Other Information |   |
|-------------------------------|---|
| Legend to Abbreviations:      | <p>ACGIH: American Conference of Governmental Industrial Hygienists</p> <p>BOELV: Binding Occupational Exposure Limit Values</p> <p>CAS: Chemical Abstracts Service</p> <p>CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act</p> <p>CLP: Classification, Labelling and Packaging of Substances and Mixtures</p> |

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|  |   |
|--|---|
|  | EC: European Commission   |
|  | EU: European Union  |
|  | IARC: International Agency for the Research of Cancer   |
|  | IBC: Intermediate Bulk Container  |
|  | IDHL: Immediately Dangerous to Life or Health Concentrations  |
|  | IOELV: Indicative Occupational Exposure Limit Values  |
|  | LC50: Lethal Concentration, 50%   |
|  | LD50: Lethal Dose, 50%  |
|  | NIOSH: National Institute for Occupational Safety and Health  |
|  | NTP: National Toxicology Program  |
|  | OECD: Organisation for Economic Co-operation and Development  |
|  | OEL: Occupational Exposure Limit  |
|  | PBT: Persistent, Bioaccumulative, and Toxic   |
|  | vPvB: very Persistent and very Bioaccumulative  |
|  | PEL: Permissible Exposure Limit   |
|  | REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals   |
|  | REL: Recommended Exposure Limit   |
|  | RQ: Reportable Quantity   |
|  | SARA: Superfund Amendments and Reauthorization Act  |
|  | SDS: Safety Data Sheet  |
|  | STEL: Short Term Exposure Limit   |
|  | STOT: Specific Target Organ Toxicity  |
|  | TLV: Threshold Limit Value  |
|  | TPQ: Threshold Planning Quantity  |
|  | TQ: Threshold Quantity  |
|  | TWA: Time Weighted Average  |
|  | UN: United Nations  |
|  | US: United States   |
|  | US-OSHA: United States Occupational Safety & Health Administration  |
| <b>Evaluation Methods Used for Classification of the Mixture:</b> Calculation method and expert judgement. |   |
| <b>Training Advice:</b>  | It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.  |
| <b>Disclaimer:</b>   | This Safety Data Sheet is intended to provide a brief summary of our knowledge and guidance regarding the use of this product. The information set forth herein has been compiled from sources considered to be reliable and is believed to be accurate as of the date of publication. This information is offered in good faith by Kevin Murphy Business Services Pty Ltd and the accuracy, suitability or completeness is not guaranteed, and no warranties of any type, either expressed or implied, are provided. If this product is combined with other materials, all component properties must be considered. The user assumes all liability for any damage or from any hazards inherent in the nature of the product. |
| <b>Last Revision Date:</b>   | 2017  |
| <b>Revision Information:</b>   | Updated format.   |