

## Safety Data Sheet

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| SECTION 1: Identification  |   |   |   |  |
|--|---|---|---|--|
| 1.1. Identification  |   |   |   |  |
| Product form<br>Product name<br>CAS-No.<br>Product code<br>Other means of identification   | : Mixture<br>: QuikLite 3E-DS<br>: Mixture<br>: 1667<br>: Alumina-Silicate Cen    | nent Bonded Castable  |   |  |
| 1.2. Recommended use and restrictions on the   |   |   |   |  |
| Use of the substance/mixture   | : Refractory  |   |   |  |
| Recommended use  | : Industrial use  |   |   |  |
| 1.3. Supplier  |   |   |   |  |
| Resco Products, Inc.<br>One Robinson Plaza, Suite 300<br>6600 Steubenville Pike<br>Pittsburgh, PA, 15205<br>United States<br>T 412-494-4491<br>SDS@RescoProducts.com - WWW.RescoProducts.com | om  |   |   |  |
| 1.4. Emergency telephone number  |   |   | <u> </u>  |  |
| Emergency number   | : EMERGENCY ONLY<br>Outside USA & Cana  | 7 (CHEMTREC) USA 8<br>ada +1 703-741-5970                                       | Canada 1-800-4  | 424-9300   |
| SECTION 2: Hazard(s) identification  |   |   |   |  |
| 2.1. Classification of the substance or mixtu  | re  |   |   |  |
| GHS US classification  | 1.124   | 5 Causes ski  | o irritotion  |  |
| Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2B<br>Carcinogenicity Category 1A<br>Full text of H statements : see section 16                           | H315<br>H320<br>H350  | Causes eye  |   | on)  |
| 2.2. GHS Label elements, including precauti  | onary statements  |   |   |  |
| GHS US labeling<br>Hazard pictograms (GHS US)  |   |   |   |  |
| Signal word (GHS US)<br>Hazard statements (GHS US)   | : Danger<br>: H315 - Causes skin i<br>H320 - Causes eye ii<br>H350 - May cause ca | rritation   |   |  |
| Precautionary statements (GHS US)  | P305+P351+P338 -<br>contact lenses, if pre<br>P332+P313 - If skin i               | sent and easy to do. C<br>irritation occurs: Get m<br>rritation persists: Get m | tiously with wate<br>ontinue rinsing.<br>edical advice/atte | r for several minutes. Remove<br>ention.   |
| 2.3. Other hazards which do not result in cla  | ssification   |   |   |  |
| Other hazards which do not result in classification  | initial heat up. These  |   | monoxide, carbo   | ay give off smoke or fumes during<br>on dioxide, and hydrocarbons.<br>may be required. |
| 2.4. Unknown acute toxicity (GHS US)   |   |   |   |  |
| No additional information available  |   |   |   |  |
| SECTION 3: Composition/Information o   | n ingredients   |   |   |  |
| 3.1. Substances  |   |   |   |  |
| Not applicable   |   |   |   |  |
| 3.2. Mixtures  |   |   |   |  |
| Name   |   | Product identifier  | %   | GHS US classification  |
| Calcium Aluminate Cement   |   | CAS-No.: 65997-16-2   | 20 – 50   | Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320   |
| cristobalite   |   | CAS-No.: 14464-46-1   | 10 – 20   | Carc. 1A, H350   |

## Safety Data Sheet

| Name         Product identifier         %         GHS US classification           Full stort of hazard classes and H-statements : see section 16         CAS-No: 1480-607         Ent         Carc. 14, HSSD           SECTION 4: Firsh-aid measures         Firsh-aid measures after inhalation         : Never give anything by mouth to a unconscious person. If you feel unwell, seek medical advice (show the islah there possible)         Firsh-aid measures after inhalation         : Never give anything by mouth to a unconscious person. If you feel unwell, seek medical advice (show the islah there possible)           Firsh-aid measures after sign control         : Gently wash with plenty of scop and water.           Firsh-aid measures after ingestion         : Rose mouth. DNO Induce vomining. Obtain emergency medical attention.           Ass. Important symptoms and officets (acute and delayyot)         Puental Adverse through inhalation.           Puental Adverse through DNO Induce vomining. Obtain emergency medical attention.         Section 34.           Symptometices after sin contract         : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.           Symptometices after sin contract         : Causes syst initiation.         Section 35.           Symptometices after sin contract         : Causes syst initiation.         Section 35.           Symptometices after sin contract         : Use extinguishing media appropriate for aurounding fire.           Symptometices after sin cont  |   |  |   |  |   |
|--|---|--|---|--|---|
| Full text of bazard classes and H-statements: see section 16 SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general  First-aid measures after inhalation  A.2. Allow affected person to breathe fresh air, Allow the victim to rest. First-aid measures after inhalation  A.3. Allow affected person to breathe fresh air, Allow the victim to rest. First-aid measures after inhalation  First-aid measures  First-first-first-first-first medicat attention and special treatment, if necessary First-aid measures  First-first-first-first-first-first measures  First-first-first-first-first-first-first measures  First-aid necession  First-aid person and proceed first-first   |   |  |   |  | GHS US classification   |
| SECTION 4: First-ald measures         41. Description of first aid measures         First-aid measures general       : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).         First-aid measures after inhalation       :: Allow affected person to breather fresh air. Allow the victim to rest.         First-aid measures after inhalation       :: Gently usah with pienty of scap and water.         First-aid measures after inhalation       :: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.         42. Most Imposting Stand Effects (acute and delayor)       : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.         Symptomedifects after skin contact       : Causes skin initiation.         Symptomedifects after skin contact       : Causes skin initiation.         A1. Suitable (and unsultable) extinguishing media       : Use extinguishing media         Statlable extinguishing media       : In case of fire. all extinguishing media allowed.         5.1. Suitable (and unsultable) extinguishing media       : In case of fire. all extinguishing media allowed.         5.2. Specific nutures       : Fight fire with normal preasulton from a reasonable distance. Prevent fire-fighting water from entering environment.         Statlable extinguishing media       : In case of fire. all extinguishing media allowed.         5.3. Specific nother chemical       : Fight fire wi   |   | soction 16   | CAS-No.: 14808-60-7   | 5 – 10   | Carc. 1A, H350  |
| First-aid measures general         : Never give anything by mouth to an unconsclus, person. If you fiel unwell, seek medical advice (show the label where possible).           First-aid measures after inholation         : Allow affected person to breathe fresh air. Allow the vicitin to rest.           First-aid measures after inposition         : EN the where possible).           First-aid measures after inposition         : EN the Where possible).           ALL most important symptoms and offects (active and delayed)         Continue rinsing.           Potential daverse turns health effects and         : Danger of serious damage to health by prolonged exposure through inhalation.           Symptoms-effects after inholation         : Causes win initiation.           Symptoms-effects after inholation         : Causes ave initiation.           Symptoms-effects after inholation and special treatment, if necessary         Na           Na mediate medical attention and special treatment, if necessary         Na           Na mediate medical attention and special treatment, if necessary         Na           Na mediate inhazion         : Use exinguishing media         : Use exinguishing media appropriate for surrounding free.           Suble cand unsuitable) exinguishing media         : Use exinguishing media appropriate for surrounding free.           Suble cand unsuitable) exinguishing media         : Use exinguishing media appropriate respiratory protection.           Suble cand unsuitable) exinguishing me   |   |  |   |  |   |
| First-aid measures general         : Never give anything by mouth to an unconsclus, person. If you fiel unwell, seek medical advice (show the label where possible).           First-aid measures after inholation         : Allow affected person to breathe fresh air. Allow the vicitin to rest.           First-aid measures after inposition         : EN the where possible).           First-aid measures after inposition         : EN the Where possible).           ALL most important symptoms and offects (active and delayed)         Continue rinsing.           Potential daverse turns health effects and         : Danger of serious damage to health by prolonged exposure through inhalation.           Symptoms-effects after inholation         : Causes win initiation.           Symptoms-effects after inholation         : Causes ave initiation.           Symptoms-effects after inholation and special treatment, if necessary         Na           Na mediate medical attention and special treatment, if necessary         Na           Na mediate medical attention and special treatment, if necessary         Na           Na mediate inhazion         : Use exinguishing media         : Use exinguishing media appropriate for surrounding free.           Suble cand unsuitable) exinguishing media         : Use exinguishing media appropriate for surrounding free.           Suble cand unsuitable) exinguishing media         : Use exinguishing media appropriate respiratory protection.           Suble cand unsuitable) exinguishing me   | 4.1. Description of first aid measures  |  |   |  |   |
| First-aid measures after ininalation       : Allow affected person to breather fresh air. Allow the vicit to rest.         First-aid measures after sin contact       : Genty wash with plendy of soop and water.         First-aid measures after sin contact       : IF IN EVES. Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue minsing.         First-aid measures after inpestion       : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.         42.1 Most important symptoms and effects (acute and delayed)       Dependent and easy to do. Continue minsing.         Symptoms/effects after inhalation       : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.         Symptoms/effects after inhalation       : Causes exp initiation.         Manuediate medical attention and special treatment, if necessary         No additional information available         Section 5.5 Fire-fighting measures         5.1. Suitable (and unsuitable) extinguishing media         Suitable extinguishing media       : Use extinguishing media allowed.         5.2. Specific hazards arising from the chemical         Firefighting instructions       : Fight fire with normal neceutions from a reasonable distance. Prevent fire-fighting water for surportation grave dimage in the induce.         5.3. Specific notations       : Fight fire with normal neceutions from a reasonable distance. Prevent fire-fighting water for surportation sepiratory protec  |   |  |   | cious person. If                                     | you feel unwell, seek medical advice  |
| Potential Adverse human health effects and symptoms Symptoms Symptoms/effects after inhalation Symptoms/effects Site intervention Symptoms/effects Site intervention Symptoms/effect Site intervention Symptoms/ef   | First-aid measures after skin contact<br>First-aid measures after eye contact | Allow affected pers     Gently wash with p     IF IN EYES: Rinse     and easy to do. Co    | on to breathe fresh air. A<br>enty of soap and water.<br>cautiously with water for<br>ntinue rinsing. | several minutes                                      | s. Remove contact lenses, if present  |
| symptoms<br>Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. May cause<br>cancer by inhalation.<br>Symptoms/effects after skin contact : Causes explimitation.<br>4.3. Immediate medical attention and special treatment, if necessary<br>No additional information available<br>SECTION 5: Fire-fighting measures<br>5.1. Suitable (and unsuitable) extinguishing media<br>2: Use extinguishing media<br>2: Use extinguishing media<br>2: Use extinguishing media allowed.<br>5.2. Specific hazards arising from the chemical<br>Fire hazard<br>5.3. Special protective equipment and precautions for fire-fighters<br>Firefighting instructions<br>Protection during firefighting<br>Chemical extinguishing media allowed.<br>5.3. Special protective equipment and precautions for fire-fighters<br>Firefighting instructions<br>Firefighting instructions<br>E Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from<br>entering environment.<br>Protection during firefighting<br>Chemical extinguishing media allowed.<br>5.4. Special protective equipment and precautions for fire-fighters<br>Firefighting instructions<br>E Dig this reak up. These throms and appropriate respiratory protection.<br>Chemical extinct exting environment.<br>Protection during firefighting<br>Chemical extinct exting environment.<br>Protection during firefighting<br>Chine information<br>E Do not breathe dust. Avoid contact with skin and eyes.<br>6.1. Personal precautions, protective equipment and emergency procedures<br>6.1. Personal precautions, protective equipment and emergency procedures<br>6.1. Personal precautions<br>Firefield firefighting<br>Chemical extensional exten | 4.2. Most important symptoms and effects                                      | (acute and delayed)  | )   |  |   |
| Symptoms/offects after skin contact : Causes skin irritation. 4.3. Immediate medical attention and special treatment, if necessary No additonal information available SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media i : Use extinguishing media a : : Use extinguishing media appropriate for surrounding fire. 1. Insuitable extinguishing media : : I uses of fire all extinguishing media allowed. 5.2. Specific hazards arising from the chemical Fire hazard : Not filammable. 5.3. Special protective equipment and proceautions for fire-fighters Filefighting instructions : : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment. Protection during firefighting : Do not here the dust. Avoid contact with skin and eyes. 6.1. Proceedures : : Do not breathe dust. Avoid contact with skin and eyes. 6.1. Proceedures : : Ventilate area. On land, sweep or shovel into suitable containers. 6.3. Methods and material for containment and cleaning up Methods for cleaning up   | symptoms  | : Danger of serious of   | lamage to health by prole   |  | -   |
| No additional information available SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Use extinguishing media allowed. 5.2. Specific hazards arising from the chemical Fire hazard : Not flammable. 5.3. Special protective equipment and precautions for fire-fighters Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1. Personal precautions, protective equipment and emergency procedures 6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions Protective equipment : Equip cleanup crew with proper protection. Emergency procedures 6.2. Environmental precautions Prevent entry to sewers and public waters. 6.3. Methods and material for containment and cleaning up Methods for cleaning up : On land, sweep or shovel into suitable containers. SECTION 7: Handling : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do hor breathe dust. Avoid contact with skin and eyes. Prevent entry to safe handling Prevant entry as all public waters. 6.1. Reference to other sections See Heading 8. Exposure controls and personal protection. SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Precautions for safe storage, including and storage areas with mild soap and water before eating dust. Set hand and when leaving work. 7.2. Conditions for safe storage, including and storage Storage conditions : Store this product in a dry location where it can be protected from the elements.  |   | : Causes skin irritation   | on.   |  |   |
| SECTION 5: Fire-fighting measures         51. Suitable (and unsuitable) extinguishing media         Suitable extinguishing media       : Use extinguishing media appropriate for surrounding fire.         Unsuitable extinguishing media       : In case of fire, all extinguishing media allowed.         52. Specific hazards arising from the chemical       : Not flammable.         53. Specific hazards arising from the chemical       : Not flammable.         53. Specific hazards arising from the chemical       : Not flammable.         53. Specific hazards arising from the chemical       : Not flammable.         54. Specific hazards arising from the chemical       : Not flammable.         55. Specific hazards arising from the chemical       : Not flammable.         54. Specific hazards arising from the chemical       : Not flammable.         55. Specific hazards arising from the chemical       : Not flammable.         7. Specific hazards arising from the chemical       : Not flammable.         9. On to rest fire area without proper protective equipment information       : Do not neate fire area without proper protective equipment and emergency procedures         6.1. Personal precautions, protective equipment and emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         6.1. Personal precautions       : Until area. On land, sweep or shovel into suitable containers.         6.2. Invironmental precautions       : Unt   | 4.3. Immediate medical attention and spec                                     | ial treatment, if nece   | essary  |  |   |
| 5.1. Suitable (and unsuitable) extinguishing media         Suitable extinguishing media       : Use extinguishing media allowed.         5.2. Specific hazards arising from the chemical         Fire hazard       : Not flammable.         5.3. Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         Cher information       : This product contains a dust suppression admixture, that may give off smoke or fures during initial heat up. These fures include earbon monoxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For innergency responders       : Do not breathe dust. Avoid contact with skin and eyes.         6.2. Environmental precautions       : Chaing a give or shovel into suitable containers.         6.3. Anotods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : Do not handle until all safety precautions have   | No additional information available   |  |   |  |   |
| Suitable extinguishing media       : Use extinguishing media appropriate for surrounding fire.         Unsuitable extinguishing media       : In case of fire, all extinguishing media allowed.         5.2. Specific hazards arising from the chemical         Fire hazard       : Not flammable.         5.3. Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Do not breathe dust. Avoid contact with skin and eyes.         6.2. Environmental precautions       : Equip cleanup crew with proper protection.         Prevent entry to severs and public waters.       6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         71. Preca  | SECTION 5: Fire-fighting measures   |  |   |  |   |
| Unsuitable extinguishing media  : In case of fire, all extinguishing media allowed.  5.2. Specific hazards arising from the chemical  fire hazard  : Not flammable.  5.3. Special protective equipment and precautions for fire-fighters  Firefighting instructions  : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.  Protection during firefighting  : Do not enter fire area without proper protective equipment, including respiratory protection.  Chemistry of the environment.  SECTION 6: Accidental release measures  6.1. Personal precautions, protective equipment and emergency procedures  6.1. For non-emergency personnel Emergency procedures  6.1. For non-emergency responders  Fire diguinent  : Do not breathe dust. Avoid contact with skin and eyes.  6.2. Environmental precautions  Prevent entry to severs and public waters.  6.3. Methods and material for containment and cleaning up  : On land, sweep or shovel into suitable containers. Minimize generation of dust.  6.4. Reference to other sections  Section S for safe handling  Firecautions for safe handling  : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.  Fire hard is in and spores every expendent on the elements.  Section of reading up  : On land, sweep or shovel into suitable containers. Minimize generation of dust.  6.4. Reference to other sections  Sections for safe handling  Firecautions for safe handling  : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.  Fire handling and storage  i Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.  Fire handling and storage  i Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin a   |   | -  |   |  |   |
| Fire hazard       : Not flammable.         5.3. Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         Other information       : This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Do not breathe dust. Avoid contact with skin and eyes.         6.2. Environmental precautions       : Ventilate area. On land, sweep or shovel into suitable containers.         6.3. Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       Sections         Sections for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not smale until all safety precautions have been read and understood. Avoid raising dust. Do not brante unti. all safety precaut   |   |  |   |  |   |
| 5.3. Special protective equipment and precautions for fire-fighters         Firefighting instructions       : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         Cher information       : This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Do not breathe dust. Avoid contact with skin and eyes.         6.2. Environmental precautions       : Ventilate area. On land, sweep or shovel into suitable containers.         6.3. Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : Sectrons         Sectrons for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         1.7. Precautions for safe handling       : Do not handle until all safety precautions have been read and under   | 5.2. Specific hazards arising from the cher                                   | nical  |   |  |   |
| Firefighting instructions       :       Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.         Protection during firefighting       :       Do not enter fire area without proper protective equipment, including respiratory protection.         Cher information       :       This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       :       Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       :       Equip cleanup crew with proper protection.         Protective equipment       :       Equip cleanup crew with proper protection.         Emergency procedures       :       Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       :       On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.3. Afference to other sections       :       See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage       :       Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with s   |   |  |   |  |   |
| entering environment.       Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         This product contains a dust suppression admixture, that may give off smoke or fumes during initial heat up. These fumes include carbon monoxide, carbon dioxide, and hydrocarbons. Adequate ventilation and appropriate respiratory protection may be required.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       : On land, sweep or shovel into suitable containers.         6.3. Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : On on theadle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         7.1. Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.  | 5.3. Special protective equipment and pred                                    | cautions for fire-figh   | ters  |  |   |
| 6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel         Emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions         Prevent entry to sewers and public waters.         6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         Precautions for safe handling         Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.   | Protection during firefighting  | entering environme<br>Do not enter fire an<br>This product contai<br>initial heat up. Thes | nt.<br>ea without proper protect<br>ns a dust suppression ac<br>e fumes include carbon                | ive equipment,<br>Imixture, that m<br>monoxide, carb | including respiratory protection.<br>ay give off smoke or fumes during<br>on dioxide, and hydrocarbons. |
| 6.1.1. For non-emergency personnel       Emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       : Ventilate area. On land, sweep or shovel into suitable containers.         6.3. Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         5.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         5.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         5.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         5.4. Reference to other sections       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.1. Precautions for safe handling       : On thandle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         <   |   |  |   |  |   |
| Emergency procedures       : Do not breathe dust. Avoid contact with skin and eyes.         6.1.2. For emergency responders       : Equip cleanup crew with proper protection.         Protective equipment       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       Prevent entry to sewers and public waters.         6.3. Methods and material for containment and cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage       7.1. Precautions for safe handling         Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       Storage condition where it can be protected from the elements.  | 6.1. Personal precautions, protective equip                                   | oment and emergen  | cy procedures   |  |   |
| Emergency procedures       : Ventilate area. On land, sweep or shovel into suitable containers.         6.2. Environmental precautions       Prevent entry to sewers and public waters.         6.3. Methods and material for containment and cleaning up       6.3. Methods for cleaning up         Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections       See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage       7.1. Precautions for safe handling         Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       : Store this product in a dry location where it can be protected from the elements.   | Emergency procedures<br>6.1.2. For emergency responders                       |  |   | and eyes.  |   |
| Prevent entry to sewers and public waters.         6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.  |   |  |   | o suitable conta                                     | ainers.   |
| 6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         Yeigene measures         : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.  |   |  |   |  |   |
| Methods for cleaning up       : On land, sweep or shovel into suitable containers. Minimize generation of dust.         6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       : Store this product in a dry location where it can be protected from the elements.  |   |  |   |  |   |
| 6.4. Reference to other sections         See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       : Store this product in a dry location where it can be protected from the elements.  |   |  |   |  |   |
| See Heading 8. Exposure controls and personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.  |   | : On land, sweep or  | shovel into suitable conta  | ainers. Minimize                                     | e generation of dust.   |
| SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         Hygiene measures         :       Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         :       Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.  |   | testies.   |   |  |   |
| 7.1. Precautions for safe handling         Precautions for safe handling         Precautions for safe handling         Hygiene measures         Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.   |   |  |   |  |   |
| Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Do not breathe dust. Avoid contact with skin and eyes.         Hygiene measures       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities       : Store this product in a dry location where it can be protected from the elements.  | SECTION 7: Handling and storage   |  |   |  |   |
| Hygiene measures       not breathe dust. Avoid contact with skin and eyes.         Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.  | 7.1. Precautions for safe handling  |  |   |  |   |
| 7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Store this product in a dry location where it can be protected from the elements.   | -   | not breathe dust. A<br>: Wash hands and of   | void contact with skin an<br>her exposed areas with   | d eyes.  | -   |
| Storage conditions : Store this product in a dry location where it can be protected from the elements.   | 7.2. Conditions for safe storage, including                                   |  | -   |  |   |
|  | Storage conditions  | : Store this product i   | n a dry location where it o   | can be protecte                                      | d from the elements.  |

## Safety Data Sheet

| SECTION 8: Exposure controls/persor                             | nal protection  |
|---|---|
| 8.1. Control parameters   |   |
| QuikLite 3E-DS (Mixture)<br>No additional information available |   |
| Calcium Aluminate Cement (65997-16-2)                           |   |
| No additional information available                             |   |
| cristobalite (14464-46-1)                                       |   |
| USA - ACGIH - Occupational Exposure Limits<br>ACGIH OEL TWA     | 0.025 mg/m <sup>3</sup> respirable dust   |
| USA - OSHA - Occupational Exposure Limits                       | 0.025 mg/m <sup>o</sup> respirable dust   |
| OSHA PEL (TWA) [1]  | 0.05 mg/m <sup>3</sup> respirable dust  |
| quartz (14808-60-7)   |   |
| USA - ACGIH - Occupational Exposure Limits                      |   |
| ACGIH OEL TWA   | 0.025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV -<br>Adopted Value; Respirable fraction) |
| USA - OSHA - Occupational Exposure Limits                       |   |
| Local name<br>OSHA PEL (TWA) [1]                                | Silica, crystalline quartz, respirable dust<br>0.05 mg/m <sup>3</sup> respirable dust   |
| Remark (OSHA)   | (3) See Table Z-3.  |
| 8.2. Appropriate engineering controls                           |   |
| Appropriate engineering controls                                | : Provide adequate ventilation to minimize dust concentrations.   |
| 8.3. Individual protection measures/Person                      |   |
| Personal protective equipment:                                  |   |
| Avoid all unnecessary exposure.                                 |   |
| Hand protection:  |   |
| Wear protective gloves.   |   |
| Eye protection:   |   |
| Chemical goggles or safety glasses                              |   |
| Skin and body protection:                                       |   |
| Wear suitable protective clothing                               |   |
| Respiratory protection:   |   |
| Wear appropriate mask   |   |
| Other information:<br>Do not eat, drink or smoke during use.    |   |
| SECTION 9: Physical and chemical pro                            | operties  |
| 9.1. Information on basic physical and che                      | emical properties   |
| Physical state  | : Solid   |
| Appearance  | : Granular mixture.   |
| Color   | : brown   |
| Odor<br>Odor threshold  | : earthy<br>: No data available   |
| pH  | : ≈ 10.5  |
| pH solution concentration                                       | : 10 %  |
| Melting point   | : > 2000 °F   |
| Freezing point  | : No data available   |
| Boiling point<br>Flash point                                    | : No data available<br>: No data available  |
| Relative evaporation rate (butyl acetate=1)                     | : No data available   |
| Flammability (solid, gas)                                       | : Not flammable.  |
| Vapor pressure  | : No data available   |
| Relative vapor density at 20°C                                  | : No data available   |
| Relative density<br>Solubility                                  | : ≈ 1.4<br>: Slightly soluble.  |
| Partition coefficient n-octanol/water (Log Pow)                 | : No data available   |
| Auto-ignition temperature                                       | : No data available   |
| Decomposition temperature                                       | : No data available   |
| Viscosity, kinematic  | : Not Applicable  |
| 6/11/2024 (Revision date)                                       | EN (English US) 3/6   |

## Safety Data Sheet

| ;;   |  |
|--|--|
|  | No data available                      |
| Explosion limits :                                   | No data available                      |
| Explosive properties :<br>Oxidizing properties :     | No data available<br>No data available |
| 9.2. Other information                               |  |
| No additional information available                  |  |
| SECTION 10: Stability and reactivity                 |  |
| 10.1. Reactivity                                     |  |
| Hydraulic setting.                                   |  |
| 10.2. Chemical stability                             |  |
| Stable under normal conditions of use.               |  |
| 10.3. Possibility of hazardous reactions             |  |
| Not established.                                     |  |
| 10.4. Conditions to avoid                            |  |
| Avoid dust formation.                                |  |
| 10.5. Incompatible materials                         |  |
| Strong acids. Strong bases.                          |  |
| 10.6. Hazardous decomposition products               |  |
| No additional information available                  |  |
| SECTION 11: Toxicological information                |  |
| 11.1. Information on toxicological effects           |  |
| Acute toxicity (oral) :<br>Acute toxicity (dermal) : | Not classified<br>Not classified       |
| Acute toxicity (inhalation)                          | Not classified                         |
| Skin corrosion/irritation :                          | Causes skin irritation.                |
|  | pH: ≈ 10.5                             |
| Calcium Aluminate Cement (65997-16-2)                |  |
| рН   | ≤ 13                                   |
| cristobalite (14464-46-1)                            |  |
| рН   | 6 - 7                                  |
| quartz (14808-60-7)                                  |  |
| pH   | 6-7                                    |
| ·  | Causes eye irritation.                 |
|  | pH: ≈ 10.5                             |
| Calcium Aluminate Cement (65997-16-2)                |  |
| рН   | ≤ 13                                   |
| cristobalite (14464-46-1)                            |  |
| рН   | 6 - 7                                  |
| quartz (14808-60-7)                                  |  |
| pH   | 6-7                                    |
| •  | Not classified                         |
| Germ cell mutagenicity                               | Not classified                         |
| Carcinogenicity :                                    | May cause cancer (Inhalation).         |
| quartz (14808-60-7)                                  |  |
| IARC group   | 1 - Carcinogenic to humans             |
| , ,  | Not classified                         |
| STOT-single exposure :                               | Not classified                         |
| STOT-repeated exposure :                             | Not classified                         |
| Aspiration hazard :<br>Viscosity, kinematic :        | Not classified<br>Not Applicable       |
| ······································               |  |

## Safety Data Sheet

| Potential Adverse human health effects and   | : Danger of serious damage to health by prolonged exposure through inhalation.   |
|--|--|
| symptoms<br>Symptoms/effects after inhalation  | : Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.                         |
| Symptoms/effects after skin contact  | : Causes skin irritation.  |
| Symptoms/effects after eye contact<br>SECTION 12: Ecological information   | : Causes eye irritation.   |
|  |  |
| 12.1. Toxicity No additional information available   |  |
| 12.2. Persistence and degradability  |  |
| QuikLite 3E-DS (Mixture)   |  |
| Persistence and degradability  | Not established.   |
| cristobalite (14464-46-1)  |  |
| Persistence and degradability  | Mineral. Not applicable.   |
| Chemical oxygen demand (COD)   | Not applicable   |
| ThOD   | Not applicable   |
| BOD (% of ThOD)  | Not applicable   |
| quartz (14808-60-7)  |  |
| Persistence and degradability  | Not applicable.  |
| Biochemical oxygen demand (BOD)  | Not applicable   |
| Chemical oxygen demand (COD)   | Not applicable   |
| ThOD   | Not applicable   |
| 12.3. Bioaccumulative potential  |  |
| QuikLite 3E-DS (Mixture)   |  |
| Bioaccumulative potential  | Not established.   |
| cristobalite (14464-46-1)  |  |
| Bioaccumulative potential  | No data available.   |
| quartz (14808-60-7)  |  |
| Bioaccumulative potential  | No data available.   |
| 12.4. Mobility in soil   |  |
| cristobalite (14464-46-1)  |  |
| Ecology - soil   | No data available.   |
| 12.5. Other adverse effects  |  |
| Effect on the global warming<br>Other information  | : None known<br>: No other effects known.  |
| SECTION 13: Disposal considerations  |  |
| 13.1. Disposal methods   |  |
| Product/Packaging disposal recommendations<br>Ecology - waste materials  | <ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Avoid release to the environment.</li> </ul> |
| SECTION 14: Transport information  |  |
| In accordance with DOT / TDG / IMDG / IATA<br>Department of Transportation (DOT)<br>In accordance with DOT<br>Not regulated<br>Transportation of Dangerous Goods<br>Not regulated<br>Transport by sea<br>Not regulated |  |

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Air transport Not regulated

### **SECTION 15: Regulatory information**

### **15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

#### CANADA

Calcium Aluminate Cement (65997-16-2) Listed on the Canadian DSL (Domestic Substances List)

#### cristobalite (14464-46-1)

| Listed on the Canadian DSL (Domestic Substances List)        |
|--|
| EU-Regulations   |
| No additional information available                          |
| National regulations   |
| quartz (14808-60-7)  |
| Listed on IARC (International Agency for Research on Cancer) |
| 15.3. US State regulations                                   |
|  |

QuikLite 3E-DS (Mixture) This product contains crystalline silica, a chemical known to the state of California to cause U.S. - California - Proposition 65 - Other information cancer. For more information go to WWW.P65Warnings.ca.gov

| cristobalite (14464-46                                   | -1)  |                  |   |                                     |  |
|--|--|------------------|---|-------------------------------------|--|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | Proposition 65 - | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity<br>- Male | No significant risk<br>level (NSRL) | Maximum allowable<br>dose level (MADL) |
| Yes  | No   | No               | No  |                                     |  |

| quartz (14808-60-7)                                      |  |                  |   |                                     |  |
|--|--|------------------|---|-------------------------------------|--|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | Proposition 65 - | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity<br>- Male | No significant risk<br>level (NSRL) | Maximum allowable<br>dose level (MADL) |
| Yes  | No   | No               | No  |                                     |  |

| State or local regulations   |
|--|
| U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous |
| Substance List; U.S Pennsylvania - RTK (Right to Know) List                      |
| U.S New Jersey - Right to Know Hazardous Substance List                          |
|  |

#### SECTION 16: Other information according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date Other information 6/11/2024

#### Report language name. English. In the event of any conflict between English and other language : versions, the English version shall prevail.

| Full text of H-phr | ases                         |  |  |
|--------------------|------------------------------|--|--|
| H315               | Causes skin irritation       |  |  |
| H320               | Causes eye irritation        |  |  |
| H350               | May cause cancer             |  |  |
| Safety Data Sheet  | Safety Data Sheet (SDS), USA |  |  |

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof