# SAFETY DATA SHEET



# 1. Identification

| Product identifier                           | 30-0-8, 40% XCU, 2% FE   |   |
|--|--|---|
| Other means of identification                | None.  |   |
| Recommended use                              | Not available.   |   |
| <b>Recommended restrictions</b>              | None known.  |   |
| Manufacturer/Importer/Supplier               | /Distributor information   |   |
| Manufacturer                                 |  |   |
| Company name<br>Address                      | GROWMARK FS LLC.<br>3150 Stoney Point Road<br>East Berlin, PA 17316<br>United States |   |
| Telephone                                    | General Assistance   | 309-557-6000  |
| Website                                      | www.growmark.com   |   |
| E-mail<br>Emergency phone number             | SDS@growmark.com<br>CHEMTREC   | 800-424-9300  |
|  |  | 000 424-0000  |
| 2. Hazard(s) identification                  |  |   |
| Physical hazards                             | Not classified.  |   |
| Health hazards                               | Not classified.  |   |
| OSHA defined hazards                         | Not classified.  |   |
| Label elements                               |  |   |
| Hazard symbol                                | None.  |   |
| Signal word                                  | None.  |   |
| Hazard statement                             | The mixture does not meet  | the criteria for classification.  |
| Precautionary statement                      |  |   |
| Prevention                                   | Observe good industrial hy   | giene practices.  |
| Response                                     | Wash hands after handling  |   |
| Storage                                      | Store away from incompatible materials.  |   |
| Disposal                                     | Dispose of waste and resid   | ues in accordance with local authority requirements.  |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.  |   |
| Supplemental information                     |  | sts of component(s) of unknown acute oral toxicity. 98.3% of the nent(s) of unknown acute dermal toxicity. 98.3% of the mixture cor |

mixture consists of component(s) of unknown acute dermal toxicity. 98.3% of the mixture consists of component(s) of unknown acute inhalation toxicity.

# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                     | Common name and synonyms | CAS number  | %       |
|-----------------------------------|--------------------------|-------------|---------|
| UREA                              |                          | 57-13-6     | 67.1    |
| Dolomite                          |                          | 16389-88-1  | 18.3    |
| POTASH                            |                          | 7447-40-7   | 12.9    |
| Amorphous Silica (total Dust)     |                          | 112926-00-8 | < 0.2   |
| Limestone (calcium Carbonate)     |                          | 1317-65-3   | < 0.2   |
| Crystalline Sio2 (quartz)         |                          | 14808-60-7  | < 0.1   |
| Other components below reportable | levels                   |             | 1 - < 3 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

| Skin contact   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |  |
|--|--|--|
| _  | Do not rub eves. Rinse with water. Get medical attention if irritation develops and persists                     |  |
| Eye contact  | Do not rub eyes. Rinse with water. Get medicar attention in initiation develops and persists.                    |  |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | Dusts may irritate the respiratory tract, skin and eyes.   |  |
| Indication of immediate<br>medical attention and special<br>treatment needed | Treat symptomatically.   |  |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |  |
| 5. Fire-fighting measures  |  |  |
| Suitable extinguishing media   | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).  |  |
| Unsuitable extinguishing media   | Do not use water jet as an extinguisher, as this will spread the fire.   |  |
| Specific hazards arising from the chemical                                   | During fire, gases hazardous to health may be formed.  |  |

**Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Use water spray to cool unopened containers.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Fire fighting

equipment/instructions

|   | Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS. |
|---|---|---|
| Methods and materials for containment and cleaning up |   | Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.   |
|   |   | Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.   |
|   |   | Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.   |
|   | Environmental precautions   | Avoid discharge into drains, water courses or onto the ground.  |
|   | 7. Handling and storage   |   |
|   | Precautions for safe handling   | Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.  |
|   | Conditions for safe storage   | Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible   |

**Conditions for safe storage, including any incompatibilities** Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components  | Туре | Value      | Form                 |
|---|------|------------|----------------------|
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)       | PEL  | 0.05 mg/m3 | Respirable dust.     |
| Limestone (calcium<br>Carbonate) (CAS<br>1317-65-3) | PEL  | 5 mg/m3    | Respirable fraction. |
| ,   |      | 15 mg/m3   | Total dust.          |

|  | Туре  |  | Value  | Form  |
|--|---|--|--|---|
| Amorphous Silica (total<br>Dust) (CAS 112926-00-8)   | TWA   |  | 0.8 mg/m3  |   |
|  |   |  | 20 mppcf   |   |
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)  | TWA   |  | 0.1 mg/m3  | Respirable.   |
| , , , , , , , , , , , , , , , , , , ,  |   |  | 2.4 mppcf  | Respirable.   |
| Dolomite (CAS 16389-88-1)  | TWA   |  | 5 mg/m3  | Respirable fraction.  |
|  |   |  | 15 mg/m3   | Total dust.   |
|  |   |  | 50 mppcf   | Total dust.   |
|  |   |  | 15 mppcf   | Respirable fraction.  |
| US. ACGIH Threshold Limit  |   |  |  |   |
| Components   | Туре  |  | Value  | Form  |
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)  | TWA   |  | 0.025 mg/m3  | Respirable fraction.  |
| US. NIOSH: Pocket Guide to<br>Components   | Chemical Hazards<br>Type  |  | Value  | Form  |
| Amorphous Silica (total<br>Dust) (CAS 112926-00-8)   | TWA   |  | 6 mg/m3  |   |
| Crystalline Sio2 (quartz)<br>(CAS 14808-60-7)  | TWA   |  | 0.05 mg/m3   | Respirable dust.  |
| Limestone (calcium<br>Carbonate) (CAS<br>1317-65-3)  | TWA   |  | 5 mg/m3  | Respirable.   |
|  |   |  | 10 mg/m3   | Total   |
|  |   |  |  |   |
| US. Workplace Environment  |   | EL) Guides   | Value  | Form  |
| Components   | Туре  | EL) Guides   | Value  | Form  |
| •  | Type<br>TWA   |  | 10 mg/m3   | Form<br>Total particulate.  |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values   | Type<br>TWA<br>No biological exposure   | limits noted for the ingredi   | 10 mg/m3<br>ent(s).  | Total particulate.  |
| Components<br>UREA (CAS 57-13-6)   | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to be<br>or other engineering con-<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in   |  | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus         |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols   | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to or<br>or other engineering co<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote  | limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br>ective equipment  | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus         |
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| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols   | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to or<br>or other engineering co<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote  | limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br>ective equipment<br>ith side shields (or goggles  | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus         |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection  | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to be<br>or other engineering co<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w   | I limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br>ective equipment<br>ith side shields (or goggles<br>nical resistant gloves.   | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus         |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection<br>Hand protection   | Type<br>TWA<br>No biological exposure<br>Good general ventilatio<br>should be matched to<br>or other engineering co<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w<br>Wear appropriate cher  | limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br>ective equipment<br>ith side shields (or goggles<br>nical resistant gloves.<br>nical resistant clothing.<br>pproved respirator if there   | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus<br>its. |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection<br>Hand protection<br>Other  | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to of<br>or other engineering con-<br>exposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w<br>Wear appropriate cher<br>Use a NIOSH/MSHA a<br>exceeding the exposure  | limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br>ective equipment<br>ith side shields (or goggles<br>nical resistant gloves.<br>nical resistant clothing.<br>pproved respirator if there   | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>anded exposure lim<br>).  | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below to<br>nust be worn. If material is<br>a appropriate local exhaus<br>its. |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection<br>Hand protection<br>Other<br>Respiratory protection  | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to a<br>or other engineering contexposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w<br>Wear appropriate cher<br>Use a NIOSH/MSHA a<br>exceeding the exposur<br>Wear appropriate ther<br>Mear appropriate ther  | I limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br><b>ective equipment</b><br>ith side shields (or goggles<br>nical resistant gloves.<br>nical resistant clothing.<br>pproved respirator if there i<br>e limits.<br>nal protective clothing, whe<br>personal hygiene measures<br>king, and/or smoking. Rou | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim<br>).<br>is a risk of exposur<br>en necessary.<br>s, such as washing | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below the<br>nust be worn. If material is<br>appropriate local exhaus<br>its.  |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection<br>Hand protection<br>Other<br>Respiratory protection<br>Thermal hazards<br>meral hygiene                | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to a<br>or other engineering contexposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w<br>Wear appropriate cher<br>Use a NIOSH/MSHA a<br>exceeding the exposur<br>Wear appropriate ther<br>Always observe good p<br>and before eating, drin<br>equipment to remove of | I limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br><b>ective equipment</b><br>ith side shields (or goggles<br>nical resistant gloves.<br>nical resistant clothing.<br>pproved respirator if there i<br>e limits.<br>nal protective clothing, whe<br>personal hygiene measures<br>king, and/or smoking. Rou | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim<br>).<br>is a risk of exposur<br>en necessary.<br>s, such as washing | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below the<br>nust be worn. If material is<br>appropriate local exhaus<br>its.  |
| Components<br>UREA (CAS 57-13-6)<br>logical limit values<br>propriate engineering<br>trols<br>vidual protection measures,<br>Eye/face protection<br>Skin protection<br>Hand protection<br>Other<br>Respiratory protection<br>Thermal hazards<br>heral hygiene<br>siderations | Type<br>TWA<br>No biological exposure<br>Good general ventilation<br>should be matched to a<br>or other engineering contexposure limits have n<br>engineering measures<br>Occupational Exposure<br>ground, cut, or used in<br>ventilation to keep exp<br>such as personal prote<br>Wear safety glasses w<br>Wear appropriate cher<br>Use a NIOSH/MSHA a<br>exceeding the exposur<br>Wear appropriate ther<br>Always observe good p<br>and before eating, drin<br>equipment to remove of | I limits noted for the ingredi<br>on (typically 10 air changes<br>conditions. If applicable, us<br>ontrols to maintain airborne<br>ot been established, mainta<br>are not sufficient to mainta<br>e Limit (OEL), suitable resp<br>any operation which may g<br>osures below the recomme<br><b>ective equipment</b><br>ith side shields (or goggles<br>nical resistant gloves.<br>nical resistant clothing.<br>pproved respirator if there i<br>e limits.<br>nal protective clothing, whe<br>personal hygiene measures<br>king, and/or smoking. Rou | 10 mg/m3<br>ent(s).<br>per hour) should b<br>e process enclosur<br>levels below recor<br>ain airborne levels<br>in concentrations of<br>iratory protection n<br>generate dusts, use<br>inded exposure lim<br>).<br>is a risk of exposur<br>en necessary.<br>s, such as washing | Total particulate.<br>Total particulate.<br>Tes, local exhaust ventilation<br>nmended exposure limits.<br>to an acceptable level. If<br>of dust particulates below the<br>nust be worn. If material is<br>appropriate local exhaus<br>its.  |

| Physical state | Solid.    |
|----------------|-----------|
| Form           | Granular. |

| Color                                      | Not available.  |
|--|---|
| Odor                                       | Not available.  |
| Odor threshold                             | Not available.  |
| рН   | Not available.  |
| Melting point/freezing point               | 270.86 °F (132.7 °C) estimated  |
| Initial boiling point and boiling range    | 2732 °F (1500 °C) estimated   |
| Flash point                                | Not available.  |
| Evaporation rate                           | Not available.  |
| Flammability (solid, gas)                  | Not available.  |
| Upper/lower flammability or exp            |   |
| Flammability limit - lower<br>(%)          | Not available.  |
| Flammability limit - upper<br>(%)          | Not available.  |
| Explosive limit - lower (%)                | Not available.  |
| Explosive limit - upper (%)                | Not available.  |
| Vapor pressure                             | 0.00002 hPa estimated   |
| Vapor density                              | Not available.  |
| Relative density                           | Not available.  |
| Solubility(ies)                            |   |
| Solubility (water)                         | Not available.  |
| Partition coefficient<br>(n-octanol/water) | Not available.  |
| Auto-ignition temperature                  | Not available.  |
| Decomposition temperature                  | Not available.  |
| Viscosity                                  | Not available.  |
| Other information                          |   |
| Density                                    | 11.93 lbs/gal estimated   |
| Explosive properties                       | Not explosive.  |
| Oxidizing properties                       | Not oxidizing.  |
| Specific gravity                           | 1.43 estimated  |
| 10. Stability and reactivity               |   |
| Reactivity                                 | The product is stable and non-reactive under normal conditions of use, storage and transport.                           |
| Chemical stability                         | Material is stable under normal conditions.   |
| Possibility of hazardous<br>reactions      | No dangerous reaction known under conditions of normal use.   |
| Conditions to avoid                        | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible materials                     | Strong oxidizing agents.  |
| Hazardous decomposition<br>products        | No hazardous decomposition products are known.  |
| 11. Toxicological informat                 | tion  |

## Information on likely routes of exposure

| Inhalation   | Dust may irritate respiratory system. Prolonged inhalation may be harmful. |
|--|--|
| Skin contact   | Dust or powder may irritate the skin.                                      |
| Eye contact  | Dust may irritate the eyes.  |
| Ingestion  | Expected to be a low ingestion hazard.                                     |
| Symptoms related to the<br>physical, chemical and<br>toxicological characteristics | Dusts may irritate the respiratory tract, skin and eyes.                   |

| Information on toxicological effe   | ects  |                            |   |
|---|---|----------------------------|---|
| Acute toxicity  | Not known.  |                            |   |
| Components  | Species   |                            | Test Results  |
| Amorphous Silica (total Dust) (CAS  | S 112926-00-8)  |                            |   |
| Acute   |   |                            |   |
| Oral  |   |                            | 00500 //  |
| LD50  | Rat   |                            | > 22500 mg/kg   |
| UREA (CAS 57-13-6)  |   |                            |   |
| Acute   |   |                            |   |
| <b>Oral</b><br>LD50   | Rat   |                            | 9471 ma/ka  |
|   |   |                            | 8471 mg/kg  |
| Skin corrosion/irritation   | Prolonged skin contact may                                | · ·                        |   |
| Serious eye damage/eye<br>irritation  | Direct contact with eyes may                              | y cause temporary irritat  | tion.   |
| Respiratory or skin sensitization   |   |                            |   |
| Respiratory sensitization   | Not a respiratory sensitizer.                             |                            |   |
| Skin sensitization  | This product is not expected                              |                            |   |
| Germ cell mutagenicity  | No data available to indicate mutagenic or genotoxic.     | e product or any compor    | nents present at greater than 0.1% are  |
| Carcinogenicity   | Not classifiable as to carcine                            | ogenicity to humans.       |   |
| IARC Monographs. Overall E  | Evaluation of Carcinogenicit                              | ty .                       |   |
| Amorphous Silica (total D<br>Crystalline Sio2 (quartz) (<br><b>OSHA Specifically Regulate</b> | (CAS 14808-60-7)  | 1 Carcinogenic to hi       | to carcinogenicity to humans.<br>umans.   |
| Crystalline Sio2 (quartz) (   | -   | Cancer                     |   |
| US. National Toxicology Pro   | ogram (NTP) Report on Carc                                | inogens                    |   |
| Crystalline Sio2 (quartz) (   | (CAS 14808-60-7)  | Known To Be Huma           | an Carcinogen.  |
| Reproductive toxicity   | This product is not expected                              | I to cause reproductive of | or developmental effects.   |
| Specific target organ toxicity - single exposure  | Not classified.   |                            |   |
| Specific target organ toxicity - repeated exposure  | Not classified.   |                            |   |
| Aspiration hazard   | Not an aspiration hazard.                                 |                            |   |
| Chronic effects   | Prolonged inhalation may be                               | e harmful.                 |   |
| Further information   | This product has no known adverse effect on human health. |                            |   |
| 12. Ecological information  | n   |                            |   |
| Ecotoxicity   | The product is not classified                             |                            | zardous. However, this does not exclude the armful or damaging effect on the environment. |
| Components  | Species   |                            | Test Results  |
| UREA (CAS 57-13-6)  |   |                            |   |
| Aquatic   |   |                            |   |
| -   | EC50 Water flea (I  | Daphnia magna)             | 3910 mg/l, 48 hours   |
| Fish  | LC50 Giant gourar   | ni (Colisa fasciata)       | 5 mg/l, 96 hours  |
| Persistence and degradability   | No data is available on the                               |                            | edients in the mixture.   |
| Bioaccumulative potential   |   |                            |   |
| Partition coefficient n-octan   | ol / water (log Kow)                                      | -2.11                      |   |
|   |   | -2.11                      |   |
| Mobility in soil  | No data available.  |                            |   |

# 13. Disposal considerations

| Disposal instructions                    | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.   |
|--|--|
| Local disposal regulations               | Dispose in accordance with all applicable regulations.   |
| Hazardous waste code                     | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| Waste from residues / unused<br>products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging                   | Since emptied containers may retain product residue, follow label warnings even after container is<br>emptied. Empty containers should be taken to an approved waste handling site for recycling or<br>disposal. |
|  |  |

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

| UN number  | UN3077   |
|--|--|
| UN proper shipping name  | Environmentally hazardous substance, solid, n.o.s. (UREA, POLYMER COATED SULFUR COATED UREA - XCU)                   |
| Transport hazard class(es)   |  |
| Class  | 9  |
| Subsidiary risk  | -  |
| Packing group  |  |
| Environmental hazards  | Yes  |
| ERG Code   | 9L   |
| Special precautions for user<br>Other information                              | Read safety instructions, SDS and emergency procedures before handling.  |
| Passenger and cargo<br>aircraft  | Allowed with restrictions.   |
| Cargo aircraft only  | Allowed with restrictions.   |
| IMDG   |  |
| UN number  | UN3077   |
| UN proper shipping name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (UREA, POLYMER COATED SULFUR COATED UREA - XCU), MARINE POLLUTANT |
| Transport hazard class(es)   |  |
| Class  | 9  |
| Subsidiary risk  | -  |
| Packing group  |  |
| Environmental hazards  |  |
| Marine pollutant   | Yes  |
| EmS  | F-A, S-F   |
| Special precautions for user   | Read safety instructions, SDS and emergency procedures before handling.  |
| Transport in bulk according to<br>Annex II of MARPOL 73/78 and<br>the IBC Code | Not applicable.  |
| IATA: IMDG   |  |

IATA; IMDG



#### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

### 15. Regulatory information

| US federal regulations | eral regulations |
|------------------------|------------------|
|------------------------|------------------|

ions This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Crystalline Sio2 (quartz) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

#### US state regulations

#### **California Proposition 65**



**WARNING:** This product can expose you to Crystalline Sio2 (quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Sio2 (quartz) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Crystalline Sio2 (quartz) (CAS 14808-60-7) Dolomite (CAS 16389-88-1)

### International Inventories

| Country(s) or region | Inventory name                                     | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS) | No                     |
| Canada               | Domestic Substances List (DSL)                     | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                | No                     |

| Country(s) or region        | Inventory name On inventory (ye   | es/no)* |
|-----------------------------|---|---------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC)                | No      |
| Europe                      | European Inventory of Existing Commercial Chemical<br>Substances (EINECS) | No      |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                    | No      |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)                  | No      |
| Korea                       | Existing Chemicals List (ECL)   | No      |
| New Zealand                 | New Zealand Inventory   | No      |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances<br>(PICCS)      | No      |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                                | No      |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                             | No      |
| ** ** *                     |   |         |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

| Issue date | 08-28-2018  |
|------------|---|
| Version #  | 01  |
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