



BlackJack Chemicals
 46 Spring View SW
 Calgary, AB T3H 3S7
 1-403-990-6035

SAFETY DATA SHEET

Date: January 1, 2022

SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

| | |
|---|---|
| BlackJack Chemicals 46 Spring View S.W. Calgary, AB T3H 3S7 1-403-990-6035 | Product Safety: 1-800-497-7861 Version Date: January 1, 2022 Version: 1 |
|---|---|

PRODUCT(S) DKG Terra Alba - DKG Turf & Ornamental - DKG Prem 97 Solution Grade - Diamond Line - Ag Grade Spreadable - Feed Grade Gypsum

| | |
|---|-----------------|
| CHEMICAL FAMILY / GENERAL CATEGORY | Gypsum Products |
|---|-----------------|

| | |
|-----------------|--|
| SYNONYMS | Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O) |
|-----------------|--|

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:
ΔCAUTION!
 This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring contaminant.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE:

| | |
|------------|--|
| Inhalation | Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician. |
| Eyes | Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. |
| Skin | None known. |
| Ingestion | None known. |

CHRONIC:

| | |
|------------|--|
| Inhalation | Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. |
| Eyes | None known. |
| Skin | None known. |
| Ingestion | None known. |



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TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

| MATERIAL | IARC | NTP | ACGIH | CAL- 65 |
|--------------------|------|-----|-------|---------|
| Crystalline silica | 1 | 1 | A2 | Listed |

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen



WARNING: This product can expose you to chemicals including arsenic and cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

Food and Drug Administration [CFR Title 21, v.3, sec 184.1230] – Calcium Sulfate is Generally Recognized as Safe (GRAS).

POTENTIAL ENVIRONMENTAL EFFECTS: Toxicity studies of gypsum performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect. (See Section 12 for more information.)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

| MATERIAL | WT% | CAS # |
|--------------------|-----|-----------------------|
| Gypsum, | >95 | 13397-24-5/14798-04-0 |
| Crystalline Silica | <1 | 14808-60-7^ |

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

^The weight percent for silica represents total quartz and not the respirable fraction.

SECTION 4 FIRST AID MEASURES

FIRST AID PROCEDURES

| | |
|------------|--|
| Inhalation | Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician. |
| Eyes | In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician. |
| Skin | Wash with mild soap and water. If irritation persists, consult physician. |



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Ingestion | This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5 FIRE FIGHTING MEASURES

| | | | |
|---|--|------------------------------------|----------------|
| General Fire Hazards | None known | | |
| Extinguishing Media | Water or use extinguishing media appropriate for surrounding fire. | | |
| Special Fire Fighting Procedures | Wear appropriate personal protective equipment. See section 8. | | |
| Unusual Fire/ Explosion Hazards | None known | | |
| Hazardous Combustion Products | Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO ₂). | | |
| Flash Point | Not Determined | Auto Ignition | Not Applicable |
| Method Used | Not Applicable | Flammability Classification | Not Applicable |
| Upper Flammable Limit (UFL) | Not Determined | | |
| Lower Flammable Limit (LFL) | Not Determined | Rate of Burning | Not Applicable |

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid dust contact with eyes and skin. Wear the appropriate eye and skin protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10).



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| MATERIAL | WT% | TLV (mg/m ³) | PEL(mg/m ³) |
|--------------------|-----|--------------------------|-------------------------|
| Gypsum, | >95 | 10 | 15 (T) / 5 (R) |
| Crystalline Silica | <1 | 0.025 (R) | 0.1 (R) |

(T)–Total; (R)–Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit
 (F)-Fume; (Du)-Dust; (M)-Mist
 ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

| | |
|----------|--|
| Eye/Face | Wear eye protection, safety glasses or goggles, to avoid possible eye contact. |
| Skin | Wear gloves and protective clothing to prevent repeated or prolonged skin contact. |
| General | Selection of Personal Protective Equipment will depend on environmental working conditions and operations. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------|--------------------|---|---|
| Appearance | White to off-white | Vapor Density (Air = 1) | Not Applicable |
| Odor | Low to no odor | Specific Gravity (H ₂ O = 1) | ~2.32 (Gypsum) |
| Odor Threshold | Not Determined | Solubility in water (g/100g) | ~ 21 (Gypsum) |
| Physical State | Solid/ Powder | Partition Coefficient | Not Determined |
| pH @ 25 ° C | ~7 | Auto-ignition Temp | Not Determined |
| Melting Point | Not Applicable | Decomposition Temp | 2642°F/1450°C |
| Freezing Point | Not Applicable | Viscosity | Not Applicable |
| Boiling Point | Not Applicable | Particle Size | Varies |
| Flash Point | Not Determined | Bulk Density | ~ 45-150 lb/ft ³ / 0.7 - 2.5 kg/m ³ |
| Evaporation Rate (BuAc = 1) | Not Applicable | Molecular Weight | ~172 g/mole |
| Upper Flammable Limit (UFL) | Not Determined | VOC Content | Zero g/L |
| Lower Flammable Limit (LFL) | Not Determined | Percent Volatile | Zero |



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|------------------------|----------------|--|--|
| Vapor Pressure (mm Hg) | Not Applicable | | |
|------------------------|----------------|--|--|

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

| | |
|--------------------------|--|
| STABILITY | Stable. |
| CONDITIONS TO AVOID | Contact with incompatibles (see below). |
| INCOMPATIBILITY | None known. |
| HAZARDOUS POLYMERIZATION | None known. |
| HAZARDOUS DECOMPOSITION | Above 1450° C - calcium oxide (CaO) and sulfur dioxide (SO ₂). |

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD50 value was more than 2,000-mg/kg b.w. for female rats. Gypsum paste applied experimentally to the eyes of rabbits was not an irritant. Gypsum dust particulate has shown an irritant action on mucous membranes of the respiratory tract and eyes. The sulfate ion has caused gastro-intestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

CHRONIC EFFECTS / CARCINOGENICITY:

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Toxicity studies of gypsum performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

| | |
|-------------------|-----------------|
| Ecotoxicity value | Not determined. |
|-------------------|-----------------|



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SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

| | |
|---------------------------|-----------------------|
| Shipping Name | Same as product name. |
| Hazard Class | Not classified. |
| UN/NA # | None. Not classified. |
| Packing Group | None. |
| Label (s) Required | Not applicable. |
| GGVSec/MDG-Code | Not classified. |
| ICAO/IATA-DGR | Not applicable. |
| RID/ADR | None. |
| ADNR | None. |

SECTION 15 REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

| MATERIAL | WT% | 3 0 2 | 3 0 4 | 3 1 3 | CERCLA | CAA Sec. 112 | RCRA Code |
|--------------------|-----|-------------|-------------|-------------|--------|-----------------|--------------|
| Gypsum, | >95 | NL | NL | NL | NL | NL | NL |
| Crystalline Silica | <1 | NL | NL | NL | NL | NL | NL |

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities (TQ)

RCRA Hazardous Waste: RCRA hazardous waste code



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CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

| MATERIAL | WT% | IDL Item # | WHMIS Classification |
|--------------------|-----|------------|----------------------|
| Gypsum, | >95 | Not Listed | Not Listed |
| Crystalline Silica | <1 | 1406 | D2A |

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38

S-Phrase(s): S51 S38 S39

SECTION 16 OTHER INFORMATION

Label Information

⚠ CAUTION!

Dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. Product safety information: www.diamondkgypsum.com.

Customer Service: 1-800-424-9300

KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

| | | | | |
|---------------|--|---------------|--|---------------------|
| NFPA Ratings: | | HMIS Ratings: | | 0 = Minimal Hazard |
| Health: 1 | | Health: 1 | | 1 = Slight Hazard |
| Fire: 0 | | Fire: 0 | | 2 = Moderate Hazard |
| Reactivity: 0 | | Reactivity: 0 | | 3 = Serious Hazard |
| | | | | 4 = Severe Hazard |

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

| | |
|--------|--|
| ANSI | American National Standards Institute |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAA | Clean Air Act |
| CAS | Chemical Abstracts Service (Registry Number) |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act of 1980 |
| CFR | Code of Federal Regulations |
| DOT | United States Department of Transportation |
| DSL | Canadian Domestic Substances List |



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| | |
|--------|---|
| EPA | United States Environmental Protection Agency |
| EPCRA | Emergency Planning & Community Right-to-know Act |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| MSHA | Mine Safety and Health Administration |
| NDSL | Canadian Non-Domestic Substances List |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| OSHA | Occupational Health and Safety Administration |
| PEL | Permissible Exposure Limit |
| PPE | Personal Protection Equipment |
| RCRA | Resource Conservation and Recovery Act |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| UN/NA# | United Nations/North America number |
| WHMIS | Workplace Hazardous Material Information System |