DCAD Plus™
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 06/15/2015 Date of issue: 06/15/2015 Supersedes Date: 03/12/2013 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Substance
Product Name: DCAD Plus™
CAS No: 584-08-7
Formula: K₂CO₃ x 1.5 H₂O
Synonyms: PotCarb, Potash, Pearl Ash, Potassium Carbonate, 1.5-Hydrate, Sesquihydrate

Intended Use of the Product
Animal Feed Supplement.

Name, Address, and Telephone of the Responsible Party
Company
Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
T 1-800-526-3563
www.churchdwight.com

Emergency Telephone Number
Emergency Number : For Medical Emergency: 1-888-234-1828, For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
Classification (GHS-US)
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US)

Signal Word (GHS-US) : Warning
Hazard Statements (GHS-US) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary Statements (GHS-US) : P261 - Avoid breathing dust.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352+P362 - IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
DCAD Plus™
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

P312 - Call a poison center or doctor if you feel unwell.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P233+P405 - Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US)  Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>(CAS No) 584-08-7</td>
<td>60 - 100</td>
<td>Skin Irrit. 2, H315 \ Eye Irrit. 2A, H319 \ STOT SE 3, H335</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
Skin Contact: Brush off loose particles from skin. Rinse immediately with plenty of water (for at least 15 minutes). Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
Eye Contact: Do not rub. Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.
Ingestion: Seek medical attention if a large amount is swallowed. Rinse mouth. Do NOT induce vomiting. If vomiting occurs have person lean forward.

Most Important Symptoms and Effects Both Acute and Delayed

General: Irritation to eyes, skin and respiratory tract.
Inhalation: May cause respiratory irritation. Symptoms may include: Cough, headache, sore throat, or unconsciousness.
Skin Contact: Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.
Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Ingestion: May be harmful if ingested in large quantities.
Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: For surrounding fire. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions. Reacts violently with strong acids/bases. Reacts with water.
Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.


Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust or fumes. Avoid skin and eye contact. Handle in accordance with good industrial hygiene and safety practice.

For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions
Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated, material emits irritating fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Ensure all national/local regulations are observed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store away from incompatible materials.


Specific End Use(s)
Animal Feed Supplement.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<table>
<thead>
<tr>
<th>Class</th>
<th>USA ACGIH</th>
<th>USA OSHA</th>
<th>Alberta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulates not otherwise classified (PNOC) (RR-00072-6)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ Respirable fraction</td>
<td>5 mg/m³ Respirable fraction</td>
<td>10 mg/m³ (total)</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ Total Dust</td>
<td>15 mg/m³ Total Dust</td>
<td></td>
</tr>
</tbody>
</table>
DCAD Plus™
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

<table>
<thead>
<tr>
<th>Province/Region</th>
<th>OEL TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>3 mg/m³ (respirable), 10 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Manitoba</td>
<td>10 mg/m³ (inhalable particles, recommended), 3 mg/m³ (respirable fraction)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>3 mg/m³ (particulate matter containing no Asbestos and &lt;1% Crystalline silica, respirable fraction), 10 mg/m³ (particulate matter containing no Asbestos and &lt;1% Crystalline silica, inhalable fraction)</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>10 mg/m³ (inhalable particles, recommended), 3 mg/m³ (respirable particles, recommended)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>10 mg/m³ (inhalable particles, recommended), 3 mg/m³ (respirable particles, recommended)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>5 mg/m³ (respirable mass), 10 mg/m³ (total mass)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>5 mg/m³ (respirable mass), 10 mg/m³ (total mass)</td>
</tr>
<tr>
<td>Ontario</td>
<td>10 mg/m³ (inhalable), 3 mg/m³ (respirable)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>10 mg/m³ (inhalable particles, recommended), 3 mg/m³ (respirable particles, recommended)</td>
</tr>
<tr>
<td>Québec</td>
<td>10 mg/m³ (including dust, inert or nuisance particulates; containing no Asbestos and &lt;1% Crystalline silica-total dust)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>20 mg/m³ (insoluble or poorly soluble-inhalable fraction), 6 mg/m³ (insoluble or poorly soluble-respirable fraction)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>10 mg/m³ (insoluble or poorly soluble-inhalable fraction), 3 mg/m³ (insoluble or poorly soluble-respirable fraction)</td>
</tr>
</tbody>
</table>

**Exposure Controls**

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Avoid creating or spreading dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wash contaminated clothing before reuse.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>White, granular powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>11.6 (1% Solution, 0.02 moles/liter has pH 11.0)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>891 °C (1635.8 °F)</td>
</tr>
</tbody>
</table>
DCAD Plus™
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Freezing Point: Not available
Boiling Point: Not available
Flash Point: Not available
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20 °C: Not available
Relative Density: Not available
Specific gravity / density: 65 - 70 lb/ft³ @ 20 °C
Specific Gravity: 2.04 @ 20 °C (water = 1)
Solubility: Complete in water
Partition Coefficient: N-Octanol/Water: Not available
Viscosity: Not available

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity: Hazardous reactions will not occur under normal conditions. Reacts violently with strong acids/bases. Reacts with water.
Chemical Stability: Material is hygroscopic. Decomposes slowly on exposure to water (moisture).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Keep away from moisture, water, ignition sources, direct sunlight, extremely high or low temperatures, incompatible materials.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Causes skin irritation
pH: 11.6 (1% Solution, 0.02 moles/liter has pH 11.0)
Serious Eye Damage/Irritation: Causes serious eye irritation
pH: 11.6 (1% Solution, 0.02 moles/liter has pH 11.0)
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation. Symptoms may include: Cough, headache, sore throat, or unconsciousness
Symptoms/Injuries After Skin Contact: Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis
Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision
Symptoms/Injuries After Ingestion: May be harmful if ingested in large quantities
DCAD Plus™

Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt (584-08-7)</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No additional information available

Persistence and Degradability

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence and Degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plus™ (584-08-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Bioaccumulative Potential</th>
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</thead>
<tbody>
<tr>
<td>DCAD Plus™ (584-08-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.


SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Not regulated for transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION

US Federal and International Regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>SARA Section 311/312 Hazard Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt (584-08-7)</td>
<td>Immediate (acute) health hazard</td>
</tr>
</tbody>
</table>

DCAD Plus™ (584-08-7)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian IDL (Ingredient Disclosure List)

US State Regulations

Neither this product nor its chemical components appear on any US state lists.

Canadian Regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plus™ (584-08-7)</td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>
Carbonic acid, dipotassium salt (584-08-7)
Listed on the Canadian DSL (Domestic Substances List)
Listed on the Canadian IDL (Ingredient Disclosure List)
IDL Concentration 1%
WHMIS Classification  Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/15/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Description</th>
<th>GHS Full Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

Party Responsible for the Preparation of This Document
Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
T 1-800-526-3563

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