



# Safety Data Sheet

Issue Date: 11/18/15

Revision Date: N/a

Version: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

**Product Name:** RegalKade 65 WDG

### Other means of identification

**EPA Pesticide Registration Number:** 60063-26-48234

### Recommended use of the chemical and restrictions on use

**Recommended use:** Herbicide

### Details of the supplier of the safety data sheet

#### **Supplier**

Regal Chemical Company  
600 Branch Dr  
Alpharetta, GA 30004  
US

**Telephone:** (770) 475-4837

**Emergency Telephone** - CHEMTREC: 1-800-424-9300

## 2. Hazardous Identification

### Classification:

**Inhalation:** Category 4

**Skin Sensitizer:** Category 1B

**Specific Target Organ Toxicity:** Repeated Category 2

**Specific Target Organ Toxicity:** Respiratory Irritation Category 3

**Eye Damage/Irritation:** Category 2B

**Carcinogenicity:** Category 1A

### OSHA Regulatory Status

**Signal Word:** Danger

### **Hazard statements:**

May cause an allergic skin reaction

Causes eye irritation

Harmful if inhaled

May cause respiratory irritation

May cause cancer

May cause damage to organs through prolonged or repeated exposure.



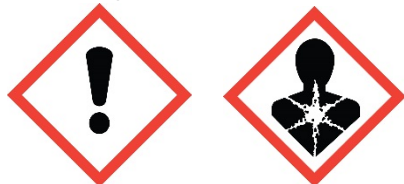
# Safety Data Sheet

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## Hazard Symbols:



## Precautionary Statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe the dust.

Wash hands and face thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing, and eye protection.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice.

If exposed or concerned: Get medical advice/attention.

Call a poison center or doctor if you feel unwell.

See Section 4 First Aid Measures.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents and container in accordance with local regulations.

**Other Hazard Statements:** May form combustible dust concentrations in air.

## 3. Composition/Information on Ingredients

Chemical Name	Common Name	CAS Number	Concentration
Crystalline Silica, Quartz and Cristobalite	Crystalline Silica, Quartz and Cristobalite	14808-60-7	Trade Secret
Kaolin Clay	Kaolin Clay	1332-58-7	Trade Secret
Other ingredients	Other ingredients	Trade Secret	35.0%
N3, N3-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine	Prodiamine	29091-21-2	65.0%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## 4. First Aid Measures

**First aid measures:** Have the product container, label or Safety Data Sheet with you when calling a poison control center or doctor or going for treatment.



# Safety Data Sheet

Issue Date: 11/18/15

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**Ingestion:** If swallowed. Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling CHEMTREC (1-800-424-9300) or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present 5 minutes, then continue rinsing eye. Call CHEMTREC (1-800-424-9300), a poison control center, or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call CHEMTREC (1-800-424-9300), a poison control center, or doctor for treatment advice.

**Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call CHEMTREC (1-800-424-9300), a poison control center, or doctor for further treatment advice.

**Most Important systems/effects:**

Eye irritation

Allergic skin reaction

Respiratory irritation

**Indication of any immediate medical attention and special treatment needed:**

There is no specific antidote if this product is ingested.

Treat symptomatically.

Person suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

## 5. Fire-Fighting Measures

**Suitable extinguishing media:** Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

**Specific hazards arising from the chemical:**

This material is considered explosion class (Kst) 2.

Fire will spread by burning with flame.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

See also Sec. 7.

**Special protective equipment and precautions for firefighters:**

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.



# Safety Data Sheet

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Version: 1

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Follow exposure controls/personal protection outlined in Section 8.

### Methods and material for containment and cleaning up

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage draining systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 7. Handling and Storage

### Precautions for safe handling:

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

### Conditions for safe storage, including any incompatibilities:

Store locked up.

## 8. Exposure Controls/Personal Protection

The following recommendations for exposure control/personal protection are intended for the manufacture, formulation and packaging of this product. For commercial applications and/or on-farm applications consult the product label.

### Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Crystalline Silica, Quartz and Cristobalite	10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> +2) (respirable dust)	0.025 mg/m <sup>3</sup> (respirable silica)	0.05 mg/m <sup>3</sup> (respirable dust)	NIOSH
Kaolin Clay	15 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)	2 mg/m <sup>3</sup> TWA (respirable)	10 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (Respirable)	NIOSH
Other ingredients	N/a	N/a	N/a	N/a
Prodiamine	Not established	Not established	5 mg/m <sup>3</sup> TWA	Regal



# Safety Data Sheet

Issue Date: 11/18/15

Revision Date: N/a

Version: 1

## Appropriate engineering controls:

**Engineering Controls:** Use effective engineering controls to comply with occupational exposure limits (if applicable).

## Individual protection measures, such as personal protective equipment

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye contact:** Where eye contact is likely, use dust-proof chemical goggles.

**Skin Contact:** Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride, [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

**Inhalation:** A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance:** Yellow granules

**Odor:** Odorless

**Odor Threshold:** N/a

### Property

### Values

pH

8.0-8.5 (5% in deionized water)

**Melting point / Freezing Point**

N/a

**Boiling Point / Boiling Range**

N/a

**Flash Point (Test method)**

N/a

**Flammability (solid, gas)**

Combustible powder

**Flammable Limits (% in Air)**

N/a

**Vapor Pressure**

Prodiamine <5.6 x 10<sup>-6</sup> mmHg @ 68°F (20° C)

**Vapor Density**

N/a

**Solubility(ies)**

Prodiamine 0.013 ppm @ 77°F (25°C)

**Partition Coefficient**

n-octanol/water: N/a

**Autoignition Temperature**

N/a

**Decomposition Temperature**

N/a

**Viscosity**

N/a

**Other**

None



# Safety Data Sheet

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## 10. Stability and Reactivity

**Reactivity:** Not reactive.

**Chemical Stability:** Stable under normal use and storage conditions.

**Possibility of Hazardous Reactions:** Will not occur.

**Conditions to Avoid:** Thermal, mechanical and electrical ignition sources.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** None known.

## 11. Toxicological Information

### **Health effects information:**

**Information on likely routes of exposure:** Dermal, Inhalation

**Symptoms of exposure:** Eye irritation, Respiratory irritation.

**Delayed, immediate and chronic effects of exposure:** Possible carcinogenicity, Eye irritation, Allergic skin reaction, Respiratory irritation.

### **Numerical measures of toxicity (acute toxicity/irritation studies (finished product))**

Ingestion:	Oral (LD50 Rat):	>5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat):	>2000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat):	1.81 mg/l air – 4 hours
Eye Contact:	Mildly Irritating (Rabbit)	
Skin Contact:	Practically Non-Irritating (Rabbit)	
Skin Sensitization:	Sensitizing (Guinea Pig)	

### **Reproductive/Developmental Effects:**

**Prodiamine:** Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1g/kg/day.

### **Chronic/Subchronic Toxicity Studies:**

**Prodiamine:** Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

### **Carcinogenicity:**

**Prodiamine:** Possible human carcinogen based on limited animal evidence in the absence of human data.



# Safety Data Sheet

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Version: 1

Chemical Name	NTP/IARC/OSHA Carcinogen
Crystalline Silica, Quartz and Cristobalite	IARC 1; ACGIH A2
Kaolin Clay	NO
Other ingredients	NO
N3, N3-Di-n-propyl-2,4-dinitro-6(trifluoromethyl)-m-phenylenediamine	NO

**Other Toxicity Information: None**

## **Toxicity of Other Components:**

### **Crystalline Silica, Quartz and Cristobalite:**

Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans.

Experimental animals exposed to crystalline silica developed respiratory tract cancers.

### **Kaolin Clay:**

May cause eye and respiratory tract irritation.

Long-term exposure to high concentrations of this dust may product x-ray evidence of dust in the lungs.

Continued long-term exposure may affect respiratory function in some individuals.

### **Other Ingredients:**

Not applicable

## **Target Organs:**

### **Active Ingredients:**

Prodiamine: Liver, thyroid

### **Inert Ingredients:**

Crystalline Silica, Quartz and Cristobalite: Respiratory tract

Kaolin Clay: Eye, respiratory tract, lung

Other ingredients: Not applicable.

## **12. Ecological Information**

### **Ecotoxicity**

#### **Prodiamine**

Fish (Bluegill Sunfish) 96-hour LC50 > 552 ppb

Invertebrate (water Flea) Daphnia Magna 48-hour EC50 > 83 ppb

Bird (Bobwhite Quail) 14-day LD50 > 2250 mg/kg

### **Environmental Fate**

#### **Prodiamine**

The information presented here is for the active ingredient, prodiamine.

Does not bioaccumulate. Persistent in soil. Stable in water. Immobile in soil. Sinks in water (after 24 h).

## **13. Disposal Considerations**



# Safety Data Sheet

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**Disposal:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations.

**Characteristic Waste:** Not applicable

**Listed Waste:** Not applicable

## 14. Transport Information

### DOT Classification:

Ground Transport: NAFTA

Not regulated

### Comments

**Water transport** – international

**Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S. (Prodiamine), Marine Pollutant

**Hazard Class:** Class 9

**Identification Number:** UN 3077

**Packing Group:** PG III

### Air Transport

**Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S. (Prodiamine)

**Hazard Class:** Class 9

**Identification Number:** UN 3077

**Packing Group:** PG III

## 15. Regulatory Information

### Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**Caution:** Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**EPA Pesticide Registration Number(s):** 60063-26-48234

### EPCRA SARA Title III Classification:

#### **Section 311/312 Hazard Classes:**

Acute Health Hazard

Fire Hazard

Chronic Health Hazard

Reactive Hazard





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**Section 313 Toxic Chemicals:** None

**California Proposition 65:** This product contains trace amounts of chemicals known to the State of California to cause cancer as unintended impurities resulting from other entities' manufacturing or processing operations which Regal cannot control.

**CERCLA/SARA 304 Reportable Quantity (RQ):** Not applicable

**RCRA Hazardous Waste Classification (40 CFR 261):** Not applicable

**TSCA Status:** Exempt from TSCA, subject to FIFRA

## 16. Other Information

### NFPA:

Health Hazards	2
Flammability	3
Instability	1

### HMIS

Health hazards	2
Flammability	3
Physical hazards	1

0 – Minimal  
1 – Slight  
2 – Moderate  
3 – Serious  
4 – Extreme  
5 - Chronic

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