

# SAFETY DATA SHEET

## DOW AGROSCIENCES LLC

**Product name:** RALLY™ 40WSP Fungicide

**Issue Date:** 05/15/2015

**Print Date:** 05/19/2015

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

---

## 1. IDENTIFICATION

---

**Product name:** RALLY™ 40WSP Fungicide

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

**Identified uses:** End use fungicide product

### COMPANY IDENTIFICATION

DOW AGROSCIENCES LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS IN 46268-1053  
UNITED STATES

**Customer Information Number:**

800-992-5994

[info@dow.com](mailto:info@dow.com)

### EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 800-992-5994

**Local Emergency Contact:** 352-323-3500

---

## 2. HAZARDS IDENTIFICATION

---

### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Combustible dust

Eye irritation - Category 2A

Carcinogenicity - Category 1A

Reproductive toxicity - Category 2

Specific target organ toxicity - repeated exposure - Category 2 - Oral

### Label elements

**Hazard pictograms**



Signal word: **DANGER!**

#### Hazards

May form combustible dust concentrations in air

Causes serious eye irritation.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.

#### Precautionary statements

##### Prevention

Obtain special instructions before use.

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

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Wear eye protection/ face protection.

Use personal protective equipment as required.

##### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

##### Storage

Store locked up.

##### Disposal

Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

no data available

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

This product is a mixture.

| Component    | CASRN      | Concentration      |
|--------------|------------|--------------------|
| Myclobutanil | 88671-89-0 | 40.0%              |
| Kaolin       | 1332-58-7  | >= 1.5 - <= 39.8 % |

|                              |               |                     |
|------------------------------|---------------|---------------------|
| Calcium polysilicate         | 1344-95-2     | 4.0%                |
| Silica, crystalline (quartz) | 14808-60-7    | 0.4%                |
| Titanium dioxide             | 13463-67-7    | 1.1%                |
| Balance                      | Not available | >= 14.7 - <= 53.0 % |

---

## 4. FIRST AID MEASURES

---

### Description of first aid measures

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

### Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Repeated excessive exposure may aggravate preexisting lung disease. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

---

## 5. FIREFIGHTING MEASURES

---

**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.

**Unsuitable extinguishing media:** Do not use direct water stream. May spread fire.

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen cyanide. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur.

**Advice for firefighters**

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use direct water stream. May spread fire. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

**Personal precautions, protective equipment and emergency procedures:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Small spills: Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Keep out of reach of children. Keep away from heat, sparks and flame. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing dust or mist. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Good housekeeping and controlling of dusts are necessary for safe handling of product. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Good housekeeping and controlling of dusts are necessary for safe handling of product.

**Conditions for safe storage:** Avoid moisture. Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits are listed below, if they exist.

| Component                    | Regulation | Type of listing         | Value/Notation                   |
|------------------------------|------------|-------------------------|----------------------------------|
| Myclobutanil                 | Dow IHG    | TWA                     | 0.5 mg/m3                        |
| Kaolin                       | ACGIH      | TWA Respirable fraction | 2 mg/m3                          |
|                              | OSHA Z-1   | TWA total dust          | 15 mg/m3                         |
|                              | OSHA Z-1   | TWA respirable fraction | 5 mg/m3                          |
|                              | OSHA Z-1   | TWA total dust          | 15 mg/m3                         |
| Calcium polysilicate         | OSHA Z-1   | TWA respirable fraction | 5 mg/m3                          |
|                              | ACGIH      | TWA                     | 10 mg/m3                         |
| Silica, crystalline (quartz) | OSHA Z-1   |                         |                                  |
|                              | OSHA Z-3   | TWA total dust          | 30 mg/m3 / %SiO <sub>2</sub> +2  |
|                              | OSHA Z-3   | TWA respirable          | 10 mg/m3 / %SiO <sub>2</sub> +2  |
|                              | OSHA Z-3   | TWA respirable          | 250 mppcf / %SiO <sub>2</sub> +5 |
|                              | ACGIH      | TWA Respirable fraction | 0.025 mg/m3 , Silica             |
| Titanium dioxide             | OSHA Z-1   | TWA total dust          | 15 mg/m3                         |
|                              | ACGIH      | TWA                     | 10 mg/m3 , Titanium dioxide      |

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

### Exposure controls

**Engineering controls:** Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use chemical goggles.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier

materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

### Appearance

|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| Physical state                         | Powder                                            |
| Color                                  | Tan                                               |
| Odor                                   | Mild                                              |
| Odor Threshold                         | No test data available                            |
| pH                                     | 7.5 - 8.5 <i>Calculated.</i> (aqueous suspension) |
| Melting point/range                    | No test data available                            |
| Freezing point                         | Not applicable                                    |
| Boiling point (760 mmHg)               | Not applicable                                    |
| Flash point                            | <b>closed cup</b> Not applicable                  |
| Evaporation Rate (Butyl Acetate = 1)   | Not applicable                                    |
| Flammability (solid, gas)              | May form combustible dust concentrations in air   |
| Lower explosion limit                  | Not applicable                                    |
| Upper explosion limit                  | Not applicable                                    |
| Vapor Pressure                         | > 266.6 hPa at 25 °C (77 °F) Solvent              |
| Relative Vapor Density (air = 1)       | Not applicable                                    |
| Relative Density (water = 1)           | Not applicable                                    |
| Water solubility                       | Dispersible                                       |
| Partition coefficient: n-octanol/water | no data available                                 |
| Auto-ignition temperature              | Not applicable                                    |
| Decomposition temperature              | No test data available                            |
| Dynamic Viscosity                      | Not applicable                                    |
| Kinematic Viscosity                    | Not applicable                                    |
| Explosive properties                   | no data available                                 |
| Oxidizing properties                   | no data available                                 |
| Liquid Density                         | 0.3 - 0.35 g/cm <sup>3</sup> <i>Calculated.</i>   |

**Bulk density** 0.255 g/cm<sup>3</sup>  
**Molecular weight** no data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

---

## 10. STABILITY AND REACTIVITY

---

**Reactivity:** no data available

**Chemical stability:** Stable under recommended storage conditions. See Storage, Section 7.

**Possibility of hazardous reactions:** Polymerization will not occur.

**Conditions to avoid:** Active ingredient decomposes at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture. Avoid direct sunlight.

**Incompatible materials:** Avoid contact with: Strong oxidizers.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Hydrogen chloride. Hydrogen cyanide.

---

## 11. TOXICOLOGICAL INFORMATION

---

*Toxicological information appears in this section when such data is available.*

### Acute toxicity

#### Acute oral toxicity

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product: Single dose oral LD<sub>50</sub> has not been determined.

Based on information for component(s):  
LD<sub>50</sub>, Rat, > 2,500 mg/kg Estimated.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD<sub>50</sub> has not been determined.

Based on information for component(s):  
LD<sub>50</sub>, Rabbit, > 5,000 mg/kg Estimated.

#### Acute inhalation toxicity

No adverse effects are anticipated from single exposure to dust. Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs.

As product: The LC50 has not been determined.

For the active ingredient(s):  
LC50, Rat, 4 Hour, dust/mist, > 5.88 mg/l

**Skin corrosion/irritation**

Brief contact is essentially nonirritating to skin.

**Serious eye damage/eye irritation**

May cause moderate eye irritation.  
May cause moderate corneal injury.

**Sensitization**

For the active ingredient(s):  
Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

For the active ingredient(s):  
In animals, effects have been reported on the following organs:  
Liver.  
Testes.  
Adrenal gland.  
Kidney.  
Thyroid.  
Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

**Carcinogenicity**

Crystalline silica has been shown to cause cancer in laboratory animals and humans. Lung fibrosis and tumors have been observed in rats exposed to titanium dioxide in two lifetime inhalation studies. Effects are believed to be due to overloading of the normal respiratory clearance mechanisms caused by the extreme study conditions. Workers exposed to titanium dioxide in the workplace have not shown an unusual incidence of chronic respiratory disease or lung cancer. Titanium dioxide was not carcinogenic in laboratory animals in lifetime feeding studies. For the active ingredient(s): Did not cause cancer in laboratory animals.

**Teratogenicity**

For the active ingredient(s): Has been toxic to the fetus in lab animals at doses nontoxic to the mother. Did not cause birth defects in laboratory animals.

**Reproductive toxicity**

For the active ingredient(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

**Mutagenicity**

For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.



For the minor component(s): In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**Carcinogenicity****Component****List****Classification****Silica, crystalline (quartz)**

IARC

Group 1: Carcinogenic to humans

ACGIH

A2: Suspected human carcinogen

**Titanium dioxide**

IARC

Group 2B: Possibly carcinogenic to humans

---

**12. ECOLOGICAL INFORMATION**

---

*Ecotoxicological information appears in this section when such data is available.*

**Toxicity****Myclobutanil****Acute toxicity to fish**

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, *Oncorhynchus mykiss* (rainbow trout), static test, 96 Hour, 2 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), static test, 48 Hour, 17 mg/l, OECD Test Guideline 202 or Equivalent

LC50, saltwater mysid *Mysidopsis bahia*, 96 Hour, 0.24 mg/l

EC50, eastern oyster (*Crassostrea virginica*), flow-through test, 96 Hour, 0.72 mg/l

**Acute toxicity to algae/aquatic plants**

ErC50, alga *Scenedesmus* sp., 96 Hour, Growth rate inhibition, 2.655 mg/l, OECD Test Guideline 201 or Equivalent

**Toxicity to Above Ground Organisms**

Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg).

dietary LC50, *Colinus virginianus* (Bobwhite quail), 8 d, mg/kg diet., > 5,000 ppm

oral LD50, *Colinus virginianus* (Bobwhite quail), 510mg/kg bodyweight.

contact LD50, *Apis mellifera* (bees), 48 Hour, 39.6micrograms/bee

oral LD50, *Apis mellifera* (bees), 48 Hour, 33.9micrograms/bee

**Toxicity to soil-dwelling organisms**

LC50, Earthworm, *Lumbricus terrestris*, 14 d, 250 mg/kg

**Kaolin****Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

**Calcium polysilicate**

**Acute toxicity to fish**

No relevant data found.

**Silica, crystalline (quartz)**

**Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

**Titanium dioxide**

**Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).  
NOEC mortality, *Leuciscus idus* (Golden orfe), static test, 48 Hour, > 1,000 mg/l

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), static test, 48 Hour, > 1,000 mg/l

**Balance**

**Acute toxicity to fish**

No relevant data found.

**Persistence and degradability**

**Myclobutanil**

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail

**Biodegradation:** 22.4 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301D or Equivalent

**Stability in Water (1/2-life)**

, > 365 d

**Photodegradation**

**Atmospheric half-life:** 7.6 Hour

**Method:** Measured

**Kaolin**

**Biodegradability:** Biodegradation is not applicable.

**Calcium polysilicate**

**Biodegradability:** Biodegradation is not applicable.

**Silica, crystalline (quartz)**

**Biodegradability:** Biodegradation is not applicable.

**Titanium dioxide**

**Biodegradability:** Biodegradation is not applicable.

**Balance**

**Biodegradability:** No relevant data found.

#### **Bioaccumulative potential**

##### **Myclobutanil**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** 3.17 Measured

**Bioconcentration factor (BCF):** 8.3 Oncorhynchus mykiss (rainbow trout)

##### **Kaolin**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

##### **Calcium polysilicate**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

##### **Silica, crystalline (quartz)**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

##### **Titanium dioxide**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

##### **Balance**

**Bioaccumulation:** No relevant data found.

#### **Mobility in soil**

##### **Myclobutanil**

Potential for mobility in soil is low (Koc between 500 and 2000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Partition coefficient(Koc):** 517

##### **Kaolin**

No relevant data found.

##### **Calcium polysilicate**

No relevant data found.

##### **Silica, crystalline (quartz)**

No relevant data found.

##### **Titanium dioxide**

No data available.

##### **Balance**

No relevant data found.

---

### **13. DISPOSAL CONSIDERATIONS**

---

**Disposal methods:** If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The

identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

---

## 14. TRANSPORT INFORMATION

---

### DOT

Not regulated for transport

### Classification for SEA transport (IMO-IMDG):

|                                                                                      |                                                                  |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Proper shipping name                                                                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Myclobutanil) |
| UN number                                                                            | UN 3077                                                          |
| Class                                                                                | 9                                                                |
| Packing group                                                                        | III                                                              |
| Marine pollutant                                                                     | Myclobutanil                                                     |
| Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code | Consult IMO regulations before transporting ocean bulk           |

### Classification for AIR transport (IATA/ICAO):

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s.(Myclobutanil) |
| UN number            | UN 3077                                                          |
| Class                | 9                                                                |
| Packing group        | III                                                              |

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

---

## 15. REGULATORY INFORMATION

---

### OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard

Chronic Health Hazard

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

**Components**

Myclobutanil

**CASRN**

88671-89-0

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:**

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

**Components**

**CASRN**

Kaolin

1332-58-7

Calcium polysilicate

1344-95-2

Titanium dioxide

13463-67-7

**Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**United States TSCA Inventory (TSCA)**

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number: 62719-410

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 swallowed

Causes moderate eye irritation

Harmful if absorbed through skin

---

## 16. OTHER INFORMATION

---

**Hazard Rating System**

**NFPA**

| Health | Fire | Reactivity |
|--------|------|------------|
| 2      | 0    | 0          |

**Revision**

Identification Number: 101189373 / A211 / Issue Date: 05/15/2015 / Version: 7.0

DAS Code: GF-1778

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| ACGIH    | USA. ACGIH Threshold Limit Values (TLV)                                          |
| Dow IHG  | Dow Industrial Hygiene Guideline                                                 |
| OSHA Z-1 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA Z-3 | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts               |
| TWA      | 8-hour, time-weighted average                                                    |

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.