

# RELLIX™

## 40 WSP

### SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

#### 1. IDENTIFICATION

**PRODUCT NAME:** Rellix 40 WSP  
**DESCRIPTION:** A powder fungicide  
**EPA REG. NO.:** 91234-284  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

#### 2. HAZARD IDENTIFICATION

##### WARNING

Causes serious eye irritation (H319)  
Suspected of damaging fertility or the unborn child (H361)  
May cause damage to organs through prolonged or repeated exposure (H373)  
Very toxic aquatic life with long lasting effects (H400+H410)



##### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage/irritation	2A	None	-
Reproductive toxicity	2		
Specific target organ toxicity, repeated exposure	2	Environmental Hazards	Category
		Hazardous to the aquatic environment, acute	1
		Hazardous to the aquatic environment, chronic	1

##### HAZARDS NOT REQUIRING CLASSIFICATION

None

##### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. (P203)  
Do not breathe mist/vapors/spray. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Wear eye protection/face protection/protective clothing/protective gloves. (P260+P264+P265+P280)  
**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 help. (P305+P351+P338+P337+P317)  
IF exposed or concerned, get medical advice. Get medical help if you feel unwell. (P318+P319)  
Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)  
Store locked up. (P405)  
Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Myclobutanil	1H-1,2,4-Triazole-1-propanenitrile, .alpha.-butyl-.alpha.-(4-chlorophenyl)-	88671-89-0	40.0%
Kaolin		1332-58-7	<60.0%
Sodium dodecylbenzenesulfonate	Benzenesulfonic acid, dodecyl-, sodium salt (1:1)	25155-30-0	<2.0%

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

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment. information. For Chemical Emergency: Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300.

**IF IN EYES:** Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Immediately call a doctor or poison control center. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** None

**Flammability Limits:** Not determined

**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.

**Extinguishing Medium:** 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. Do not use direct water stream. May spread fire.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

## 5. FIREFIGHTING MEASURES (cont.)

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**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: Sulfur oxides, phosphorus oxides, nitrogen oxides, hydrogen chloride, carbon monoxide, carbon dioxide.

**NFPA Ratings:** Health – 2 / Flammability – 0 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined area. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**Environmental Precautions:** Contain spillage and minimize spread. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

**Spill Cleanup:** Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Storage:** Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

## 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/m <sup>3</sup>
Kaolin	ACGIH	TWA respirable particulate matter	2 mg/m <sup>3</sup>
	OSHA Z-1	TWA total dust	15 mg/m <sup>3</sup>
	OSHA Z-1	TWA respirable fraction	5 mg/m <sup>3</sup>
	OSHA Z-1	TWA total dust	15 mg/m <sup>3</sup>
	ACGIH	TWA	10 mg/m <sup>3</sup> , 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.**

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Protective Clothing:** Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof material (such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils; and shoes plus socks.

**General:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	light brown powder
<b>Odor:</b>	mild sweet
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point (cc):</b>	not available
<b>Auto-ignition temperature:</b>	not applicable
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	8-9
<b>Viscosity:</b>	not available
<b>Solubility:</b>	dispersible
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Bulk density:</b>	0.305 g/cm <sup>3</sup>
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Active ingredient decomposes at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture and direct sunlight.

**CHEMICAL STABILITY:** Stable at normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER 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 and hydrogen cyanide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** >2,500 mg/kg (estimated)

**DERMAL TOXICITY (rat LD<sub>50</sub>):** >5,000 mg/kg (estimated)

**INHALATION TOXICITY (rat LC<sub>50</sub>):** >5.88 mg/L (4-hour)

**EYE IRRITATION:** May cause moderate eye irritation.

**SKIN IRRITATION:** Brief contact is essentially nonirritating to skin.

**SKIN SENSITIZATION:** Did not cause allergic skin reactions when tested in guinea pigs.

### CARCINOGENICITY:

**EPA:** Group E: Not likely to be carcinogenic to humans. (myclobutanil)

**ACGIH:** Not listed      **NTP:** Not listed

**IARC:** Not listed      **OSHA:** Not listed

**STOT – SINGLE EXPOSURE TOXICITY:** Available data are inadequate to determine single exposure target organ toxicity.

**STOT – REPEATED EXPOSURE TOXICITY:** In animals, effects have been reported on the following organs: liver, testes, adrenal gland, kidney, thyroid.

**REPRODUCTIVE TOXICITY:** For the active ingredient, effects on reproduction have been only seen at doses that produced significant toxicity to the parent animals in laboratory studies.

**TERATOGENICITY:** For the active ingredient, toxicity has been observed to the fetus at doses nontoxic to the mother in laboratory studies. Did not cause birth defects in laboratory animals.

**MUTAGENICITY:** For the active ingredient, in vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative. For the minor components, in vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

## 12. ECOLOGICAL INFORMATION

Myclobutanil is slightly toxic to freshwater daphnid and highly toxic to estuarine/marine invertebrates.

The following information is for the active ingredient, myclobutanil:

### AQUATIC TOXICITY

Bluegill Sunfish (96-hour LC<sub>50</sub>): 2.4 mg/L

Fathead Minnow (NOAEC): 0.98 mg/L

Sheepshead Minnow (96-hour LC<sub>50</sub>): 4.7 mg/L

Water Flea (48-hour EC<sub>50</sub>): 11 mg/L; (NOAEC) 3.9 mg/L (based on ACR analysis)

Mysid Shrimp (96-hour LC<sub>50</sub>): 0.24 mg/L; (NOAEC): 0.0856 mg/L

Algae (120-hour EC<sub>50</sub>): 0.83 mg/L

### AVIAN TOXICITY

Bobwhite Quail (LD<sub>50</sub>): 498 mg/kg; (NOAEC): 256 mg/kg

### TERRESTRIAL INVERTEBRATE TOXICITY

Honeybee (48-hour LD<sub>50</sub>): >500 µg/bee

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the user according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable containers. Do not reuse or refill this container. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

### US-DOT:

Not regulated

### IMDG:

**Containers ≤ 1.3 gal. (5 L) in strong out packaging:**

Not regulated

**Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:**

Shipped internationally by vessel: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains myclobutanil), 9, PG III, Marine Pollutant

### IATA:

**Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:**

Shipments by air: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains myclobutanil), 9, PG III, Marine Pollutant

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

### FIFRA –

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. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Causes Moderate Eye Irritation. Harmful If Swallowed. Harmful If Absorbed Through Skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

For terrestrial uses, DO NOT apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwaters or rinsate. DO NOT apply when weather conditions favor drift or runoff from areas treated.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

## 15. REGULATORY INFORMATION (cont.)

**SARA Title III – Section 302 Extremely Hazardous Substances**  
Not listed


**SARA Title III – Section 311/312 Hazard Categories**  
Immediate (Acute), Delayed (Chronic)

**SARA Title III – Section 312 Threshold Planning Quantity**  
The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

**SARA Title III – Section 313 Reportable Ingredients**  
Myclobutanil (CAS No. 8867-89-0): 40.0%

**CERCLA Reportable Quantity (RQ) –**  
Sodium dodecylbenzenesulfonate (CAS No. 25155-30-0): 1,000 lbs.

### **CALIFORNIA PROP 65 STATUS –**

 **WARNING:** This product can expose you to chemicals including myclobutanil, which is known to the State of California to cause developmental toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **CANADA –**

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.

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

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SDS Version: 1.1

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