

**MATERIAL SAFETY DATA SHEET**

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General Information No. 229-245-8845  
In Case of Emergency, Call  
PROSAR: 888-875-1724  
CHEMTREC: 800-424-9300

**I. PRODUCT IDENTIFICATION**

Product name: Siskin  
Active Ingredient: Myclobutanil (19.7%)  
Chemical Name: alpha-butyl-alpha-(4-chlorophenyl)-1H-1,2,4, triazole-1-propanenitrile

**II. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS number	% by Wt.	OSHA PEL	ACGIH TLV
Myclobutanil	88671-89-0	19.7	Not established	Not established
Petroleum distillates (containing naphthalene)	64742-94-5	< 21.0	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>
	91-20-3		10 ppm	10 ppm

**III. HAZARDS IDENTIFICATION**

As defined by OSHA Hazard Communication Standard (29 CFR 1910.1200).

**HEALTH HAZARDS**

Moderate to severe eye irritant. Can cause irreversible eye damage if not treated promptly.

**PHYSICAL OR CHEMICAL HAZARDS**

May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS**

Myclobutanil is toxic to aquatic organisms. 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. Do not apply when weather conditions favor drift or runoff from areas treated.

**IV. FIRST AID MEASURES**

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

If on Skin or Clothing: 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.

**Note to Physician:** Contains petroleum distillate-vomiting may cause aspiration pneumonia.

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## V. FIRE FIGHTING MEASURES

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Flash point (method): 140 °F (60 °C)  
Flammable limits (LFL-UFL): LFL: Not available  
UFL: Not available  
Fire and Explosion Hazards: Vapors from product can be flammable. Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.  
Extinguishing Media: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.  
Fire Fighting Instructions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to run off.  
Fire Fighting Equipment: Self-contained breathing apparatus with full facepiece.  
Hazardous Combustion Products: Hydrogen chloride, hydrogen cyanide, oxides of nitrogen, carbon monoxide.

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## VI. ACCIDENTAL RELEASE MEASURES

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Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protection equipment (See Section VIII, Exposure Controls/Personal Protection).

Small Spill: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

Large Spill: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean the area with detergent and water and neutralize with dilute alkaline solutions of caustic or lime.

This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

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## VII. HANDLING AND STORAGE

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### KEEP OUT OF REACH OF CHILDREN!

- Handling: Use only in a well-ventilated area. Wear appropriate safety equipment when handling. Use properly grounded equipment to prevent static electricity discharge.
- Storage: Store in original containers only. Keep away from drinking water, food, or feed. Store in a well ventilated, dry place away from heat and other sources of ignition. Minimum and maximum storage temperatures are 35 °F to 120 °F.

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## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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*Exposure limits (8 hour TWA, ppm): Refer to Section III of this MSDS.*

Engineering Controls: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meet the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### Personal Protective Equipment (PPE)

WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves made from barrier laminate,
- Shoes plus socks.

Non-WPS Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks.

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

### User Safety Requirements:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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**IX. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance: Off-white liquid  
Odor: Mild petroleum  
pH: 5.5-6.5  
Specific Gravity: 1.009 g/mL (8.42 lbs/gal)  
Vapor Pressure (technical):  $1.3 \times 10^{-3}$  Pa @ 25 ° C  
Water Solubility: Emulsifies

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**X. STABILITY AND REACTIVITY**

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Chemical Stability: Stable under normal recommended storage conditions; however may decompose if heated.  
Conditions to Avoid: Avoid ignition sources and temperatures below 35 °F and above 120°F.  
Incompatibility: Oxidizers and strong acids.  
Hazardous Decomposition Products: Hydrogen chloride, oxides of nitrogen.  
Hazardous Polymerization: Product will not undergo polymerization.

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**XI. TOXICOLOGICAL INFORMATION**

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Acute Toxicity:  
Oral LD<sub>50</sub> (rat): > 2000 mg/Kg  
Dermal LD<sub>50</sub> (rabbit): > 2000 mg/Kg  
Inhalation LC<sub>50</sub> (rat): > 2.0 mg/L  
Eye Irritation (rabbit): Severe, possible corneal injury  
Skin Irritation (rabbit): Moderate  
Sensitization (guinea pig): Non-sensitizer

Medical Conditions Aggravated by Exposure: None known.

Carcinogen Status:  
OSHA Not listed  
NTP Not listed  
IARC Not listed

Mutagenic Data: In vitro and animal evidence indicates that myclobutanil is non-mutagenic.

Reproductive Data: Myclobutanil exhibited reproductive toxicity in long term rat and rabbit studies at moderate doses.

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**XII. ECOLOGICAL INFORMATION**

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**Environmental Summary**

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. Do not apply when weather conditions favor drift or runoff from areas treated.

Fish Toxicity (Technical): 96 hour LC<sub>50</sub>, Rainbow trout: 3.9 mg/L  
96 hour LC<sub>50</sub>, Bluegill: 2.2 mg/L

Avian Toxicity (Technical): Oral LD<sub>50</sub>, Bobwhite quail: 510 mg/Kg  
Dietary LC<sub>50</sub>, mallard ducks: >5000 mg/Kg

Bee Toxicity (Technical): Contact LD<sub>50</sub>: >200µg/bee

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### **XIII. DISPOSAL CONSIDERATIONS**

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Do not contaminate water, food or feed by storage or disposal.

Disposal: Wastes resulting from the use of this product may be disposed of on site or approved waste disposal facility.

Container Disposal: Completely empty container into application equipment. Dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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### **XIV. TRANSPORT INFORMATION**

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DOT Shipping Description: Containers < 119 gallons: Not regulated by DOT.  
Containers ≥ 119 gallons: Combustible liquid, NOS (Petroleum distillates), 3, PG III.

DOT Hazard Class: Class 3 (containers ≥ 119 gallons)

UN Number: 1993

DOT Packing Group: PG III

DOT Primary/Secondary label: Combustible Class 3 (containers ≥ 119 gallons)

DOT Primary/Secondary Placard: Combustible Class 3 (containers ≥ 119 gallons)

DOT Emergency Response Guide No.: 128

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### **XV. REGULATORY INFORMATION**

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FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA Reportable Quantity: 100 lbs. naphthalene (approximately 625 gallons of product)  
5000 lbs. cyclohexanone (approximately 5900 gallons of product)

SARA TITLE III STATUS:  
311/312 Hazard Categories: An immediate health hazard. A delayed health hazard.  
313 Toxic Chemicals: Myclobutanil (88671-89-0)

CALIFORNIA PROP 65 STATUS: Contains myclobutanil.

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**XVI. OTHER INFORMATION**

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