



**Material Safety Data Sheet (MSDS)**  
**Cymbaz Super**

**IDENTIFICATION OF THE SUPPLIER:**

**AGRO CHEMICALS INDUSTRIES LTD**  
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**PRODUCT IDENTIFICATION:**

**Common Name:** cypermethrin 40% W/V  
**Trade Name:** Cymbaz Super  
**Chemical Name:** (RS) - $\Rightarrow$  -cyano-3-phenoxybenzyl (1RS, 3RS;1RS,3SR)-3-(2,2-dichloro=vinyl)-2,2-dimethylcyclopropanecarboxylate.  
**Chemical Formula:** C<sub>22</sub>H<sub>19</sub>C<sub>12</sub>NO<sub>3</sub>  
**Molecular Weight:** 416.3

**PRODUCT COMPOSITION:**

<b>Active Ingredient:</b>	<b>% w/v</b>	<b>CAS #</b>
Cypermethrin	40 %	[52315-07-8]
<b>Inert ingredient:</b>		
Emulsifier	5 %	--
Solvent	Up to 100%	--

**HAZARDOUS IDENTIFICATION:**

Physical hazards: Combustible liquid  
Health hazards: irritant (eye, skin sensitization), Harmful (oral). Toxic (inhalation).



### FIRST-AID MEASURES:

**EYES:** Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

**SKIN:** Wash with plenty of soap and water.

**INGESTION:** Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger. Never induce vomiting or give anything by mouth to an unconscious person. Contact a medical doctor.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

### FIRE-FIGHTING MEASURES: -

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub> or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

**FIRE / EXPLOSION HAZARDS:** Slightly combustible. This material may support combustion at elevated temperatures.

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

### ACCIDENTAL RELEASE:

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment.

Keep unprotected persons and animals out of the area.

Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary.



## PERSONAL PROTECTION/SAFTETY:

**EYES AND FACE:** For dust exposure, wear chemical protective goggles or a face shield.

**RESPIRATORY:** For dust exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical protective gloves made of materials such as rubber, neoprene or nitrile. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

## HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## STABILITY AND REACTIVITY

### HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

**Stability:** Stable under normal conditions.

**Hazardous polymerization:** Will not occur.

**HAZARDOUS REACTIONS (MATERIALS TO AVOID)** strong oxidizing agents

### HAZARDOUS DECOMPOSITION PRODUCTS

Combustion products – Carbon dioxide, carbon monoxide. nitrogen oxides , sulfur oxides , ammonia . halogens , halogen acids , possible trace amounts of carbonyl halide .



## TOXICOLOGICAL INFORMATION:

**EYE EFFECTS:** Minimally irritating (rabbit)

**SKIN EFFECTS:** Non-irritating (rabbit)

**DERMAL LD50:** > 2,000 mg/kg (rabbit)

**ORAL LD50:** 2,342 mg/kg (rat)

**INHALATION LC50:** cypermethrin: 2.5 mg/l (4 h) (rat)

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product has low oral and dermal toxicity. It is expected to have low inhalation toxicity. It is minimally irritating to the eyes, and nonirritating to the skin. Signs of toxicity in laboratory animals included convulsions, ataxia, abdominogenital staining and, oral and ocular discharges. Experience to date indicates that contact with this product may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the formulation. In studies with laboratory animals, cypermethrin did not cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice.

## ECOLOGICAL INFORMATION: -

**ENVIRONMENTAL DATA:** When applied at agricultural use rates, cypermethrin has a moderate rate of degradation in the soil. At termiticidal use rates, cypermethrin degrades at a slower rate that is governed by soil characteristics (e.g., pH). The rate of cypermethrin hydrolysis is somewhat faster under alkaline conditions than at neutral or acidic pH. Cypermethrin has a high affinity for organic matter and a Log Pow of 5.0, but has demonstrated a low potential for bioconcentration (BCF = 17). Cypermethrin is not mobile in soil.

**ECOTOXICOLOGICAL INFORMATION:** Cypermethrin is considered highly toxic to fish and aquatic arthropods, and has LC50 values which range from 0.004 µg/L to 3.6 µg/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment. Cypermethrin is slightly toxic to birds and oral LD50 values are greater than 10,248 mg/kg.





## **DISPOSAL CONSIDERATIONS:**

**DISPOSAL METHOD:** Open dumping or burning of this material or its packaging is prohibited.

If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**EMPTY CONTAINER:** Non-returnable containers that held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triplerinsed, and recycled, with the rinsate being incinerated.

