

MATERIAL SAFETY DATA SHEET

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General Information No.
In Case of Emergency, Call
PROSAR:

229-245-8845
888-875-1724

I. PRODUCT IDENTIFICATION

Product Name: CutDown

Active ingredient: Paclobutrazol (22.3%)

Active Ingredient IUPAC Name: ((±)-(R* ,R*)-b-[(4-chlorophenyl) methyl]-a-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol)

II. COMPOSITION INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Paclobutrazol	076738-64-2	22.3
Total other ingredients:		77.7
Including		
Propylene Glycol	57-55-6	
Clay		
Proprietary ingredients		

III. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Beige or off-white
Physical State:	Opaque liquid
pH:	Not available
Solubility in Water (20°C):	Miscible
Density (20°C):	1.08 ± 0.02 g/cm ³
Boiling Point:	Approximately 212°F

IV. FIRE FIGHTING MEASURES

Flash Point & Method: Does not flash

FIRE FIGHTING HAZARDS & PROCEDURES

Extinguishing Media: For small fires, use foam, carbon dioxide, halon, or dry powder extinguishant. For large fires, use foam or water-fog. Avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Fire Fighting Equipment: Wear suitable protective clothing and self-contained breathing apparatus.

V. HAZARDOUS IDENTIFICATION SUMMARY

Low toxicity under normal conditions of handling and use.

VI. FIRST AID MEASURES

IF SWALLOWED	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. 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.
IF IN EYES	Hold eye open and rinse slowly and gently with water 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 INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

VII. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:	Wear suitable personal protection during removal of spillages. This means eye protection, chemically resistant gloves, boots and coveralls. Absorb spillage onto sand, soil, or any other suitable absorbent material. Transfer to a container for disposal. Wash spillage area with water. Washings must be prevented from entering surface water drains. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call day or night, 1-800-424-9300, Chemtrec.
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VIII. HANDLING AND STORAGE

Safe Handling Advice:	Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Requirements for Storage Rooms:	Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost. Do not store near food or within the reach of children.
Additional Information:	Read the label before use.

IX. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
Respiratory Protection:	No respiratory protection required under normal conditions of use. In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.
Eye Protection:	Wear protective eyewear to prevent contact with this substance.
Protective Clothing:	Wear chemical resistant gloves (such as nitrile or butyl) coveralls, socks and chemical resistant footwear. For overhead exposure, wear chemical-resistant headgear.

X. STABILITY AND REACTIVITY

Stability: Stable for more than 2 years under normal use and storage conditions. Stable to hydrolysis (pH 4-9) and not degraded by UV light.

Conditions to Avoid: Oxidizing agents.

Hazardous Decomposition: Combustion or thermal decomposition will evolve toxic and irritant vapors.

Hazardous Polymerization: Material is not known to polymerize.

XI. TOXICOLOGICAL INFORMATION

Based on Paclobutrazol Technical.

Acute Toxicity:

Acute oral (rats) LD₅₀: >5,000 mg/Kg
Acute dermal (rabbits) LD₅₀: > 5,050 mg/Kg
Acute inhalation (Rats): LC₅₀: >2.40 mg/L
Acute eye irritation (rabbits): Non-Irritant
Acute dermal irritation (rabbits): Non-Irritant
Skin sensitization (mice): Is not considered a sensitizer, with an index of < 3 in all groups of test animals

XII. ECOLOGICAL INFORMATION

Based on Paclobutrazol Technical.

Ecotoxicity:

Toxicity to fish: LC₅₀ Rainbow trout: 27.8 mg/L
Bluegill sunfish: 23.6 mg/L
Daphnia magna: 33.2 mg/L

Unlikely to be hazardous to aquatic life

Avian dietary toxicity: LC₅₀ Mallard duck: >20,000 ppm
Quail: > 5,000 ppm

XIII. DISPOSAL CONSIDERATIONS

Discarded product is not considered as a hazardous waste under RCRA, 40 CFR 261.

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

XIV. TRANSPORT INFORMATION

DOT Classification: Not regulated

B/L Freight Classification: Plant Growth Inhibitor, Modifier or Regulator

XV. REGULATORY INFORMATION

Not classified as hazardous to users.

TSCA (Toxic substances control act) regulations, 40 CFR 710:

This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA regulations (40CFR 355,370 and 372): This product does not contain any chemicals subject to the reporting requirements of SARA section 313.

XVI. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Phoenix Environmental Care, LLC assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of these data.