

400-588

09/01/2011

1/5



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: **400-588**
 Date of Issuance: **SEP -1 2011**

NOTICE OF PESTICIDE:
 Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance: **unconditional**
 Name of Pesticide Product: **Percutio GR**

Name and Address of Registrant (include ZIP Code):
Chemtura Corporation
199 Benson Road
Middlebury, CT 06749-0001

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.


The Basic and Alternate Confidential Statements of Formula (CSFs) dated 03/17/2011 are acceptable.

This product is registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revision:
 - a. a. Revise "EPA REG. NO. 400-LII" to "EPA REG. NO. 400-588." Assure that the establishment number and net contents are also added to the final printed label.
3. Should you wish to retain the company's website on your label, then please be aware that the language presented in the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to the false and misleading provisions of 40 CFR 156.10(a)(5). Therefore should the Agency find or if it is brought to our attention that a website contains claims substantially differing from the EPA approved section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.
4. Submit one (1) copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this notice, please contact Maggie Rudick of my staff at 703-347-0257 or rudick.maggie@epa.gov.

Signature of Approving Official:

 Kable Bo Davis
 Project Manager 25
 Herbicide Branch
 Registration Division (7505P)

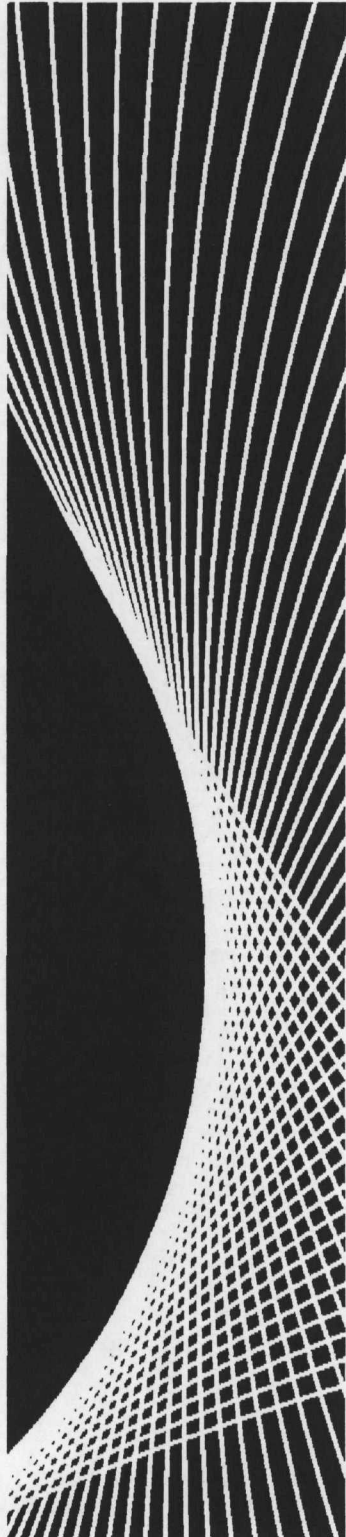
Date: **SEP -1 2011**

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

SEP -1 2011

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
400-588**

Percutio™ GR



For use as a selective herbicide in permanently flooded or water-seeded rice only in the state of California.

ACTIVE INGREDIENT:

Orthosulfamuron	0.50%
OTHER INGREDIENTS	99.50%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call 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:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for further treatment advice.
If inhaled:	<ul style="list-style-type: none"> • 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.
If in eyes:	<ul style="list-style-type: none"> • 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 further treatment advice.
EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
EMERGENCY PHONE	800-292-5898
SAFETY DATA AND INFORMATION	866-430-2775
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

EPA REG. NO. 400-
EPA EST. NO.
001

Manufactured for:
Chemtura Corporation
199 Benson Road
Middlebury, CT 06749



www.chemtura.com

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION/PRECAUCION**

Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

Personal Protective Equipment (PPE): Applicators and other handlers must wear the following:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

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.

User Safety Recommendations: Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if 1 pesticide gets inside. Then wash skin thoroughly and put on clean clothing.

Engineering Controls: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (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.

ENVIRONMENTAL HAZARDS

With the exception of treating rice fields as specified on this label, 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 arable land and/or water when disposing of equipment wash water or rinseate.

IMPORTANT

Injury to or loss of desirable trees, vegetation and/or adjacent sensitive crops may result from failure to observe the following: Avoid all direct or indirect contact with crops other than rice or land scheduled to be planted with crops other than rice due to the potential for sensitivity to the active ingredient in PERCUTIO™ GR.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label. Use strictly in accordance with Precautionary Statements and Directions, and with applicable State and Federal regulations.

Do not apply this product in a way that will contact workers or other people, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling, and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves (made of any waterproof material), protective eyewear, and shoes plus socks.

USE INFORMATION

PERCUTIO GR is a systemic herbicide formulated as a granule suitable for selective post emergence weed control. When applied according to label directions it is effective in the control of several annual and perennial broadleaf weeds and sedges.

To achieve the best control, it is recommended that PERCUTIO GR be applied to young, actively growing weeds between 1-2 leaves. PERCUTIO GR must be applied as a direct dry application using ground

or air equipment to flooded rice.

Efficacy may depend on the following parameters:

- Weed size at application
- Growing and environmental conditions (relative humidity and temperature) prior to and following treatment
- Soil pH, texture and organic matter content
- Water management

PERCUTIO GR is a member of the sulfonylurea herbicides.

PERCUTIO GR inhibits the plant enzyme acetolactate synthase (ALS), which is also known as acetohydroxy acid synthase (AHAS). Inhibition of this enzyme blocks branched-chain amino acid biosynthesis of valine, leucine and isoleucine, which leads to plant death.

PERCUTIO GR is particularly efficient by foliar uptake. Once in the target weed, it is translocated by xylem and phloem. Soon after PERCUTIO GR is applied, growth of susceptible weeds is inhibited and the plants are no longer competitive with rice. Typically, weed leaves turn yellow, then reddish and within 10 to 20 days, depending on weed size, species and growing conditions, the stem and roots die. Treated target weeds may stay green, but are stunted and not competitive with the crop.

Additional Use Instructions and Precautions

- Do not apply after 1/2 inch internode elongation
- Do not enter treated fields until 12 hours after application (REI = 12 hours)
- Poor weed control may result from application of PERCUTIO GR made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, hail damage, hydrogen sulfide or prior herbicide applications
- For detailed instructions regarding water management before and after application, refer to the water management section of this label
- Do not apply where runoff or irrigation water may flow directly onto agricultural lands other than rice fields
- Do not apply PERCUTIO GR directly or indirectly to crops other than rice
- Application of PERCUTIO GR to fields which have been levelled (except water levelling) within 12 months prior to application may result in rice injury in areas that have been cut or filled
- Do not make more than 1 application or apply more than 13.3 pounds of PERCUTIO GR per acre (equivalent to 0.067 lb ai/a) during the growing season
- Do not apply PERCUTIO WG or STRADA to the same field in the same growing season that an application of PERCUTIO GR has been applied

- Chemigation or applications through any type of irrigation system is not allowed

Rotational Crop Information

Use the time intervals listed below to determine the minimum required time interval between last PERCUTIO GR application and new crop planting.

Rotational Crop Guideline	
Crop	Time Interval in Months Before Planting
Sugarcane	1
Corn (all)	3
Small Grains	3
Cotton	6
Soybean	6
All Other Crops	12

WEED CONTROL SPECTRUM for Percutio GR

Weeds Controlled		Rate of Application
Common name	Scientific name	
Ammannia, Purple.*	<i>Ammannia coccinea</i> *	PERCUTIO GR 13.3 Pounds/Acre
Arrowhead, California*	<i>Sagittaria montevidensis</i> *	
Bulrush, Ricefield *	<i>Schoenoplectus mucronatus</i> *	
Ducksalad *	<i>Heteranthera limosa</i> *	
Eclipta	<i>Eclipta prostrata</i>	
Monochoria	<i>Monochoria vaginalis</i>	
Redstem*	<i>Ammannia auriculata</i> *	
Smallflower umbrella sedge *	<i>Cyperus difformis</i> *	
Smartweed spp.	<i>Polygonum spp.</i>	
Waterhyssop spp.	<i>Bacopa spp.</i>	
Waterplantain spp. (seedling)*	<i>Alisma spp.*</i>	
Weeds Partially Controlled or Suppressed ***		
Alligatorweed	<i>Alternanthera philoxeroides</i>	
Yellow nutsedge**	<i>Cyperus esculentus</i> **	
Watergrass, Early *	<i>Echinochloa oryzoides</i>	
Watergrass, Late *	<i>Echinochloa phyllopogon</i>	

* PERCUTIO GR does not control ALS resistant biotypes of this weed, which might be present in the field.

** An earlier treatment (up to 4 leaf or 4") is suggested for effective control and to prevent nutsedge from competing with the crop. An additional herbicide application may be needed for effective control of heavy infestations.

***Control of suppressed weeds may be significantly improved using weed control programs that incorporate other herbicides with activity against the target weeds listed as partially controlled or suppressed.

Note: Weeds with gradual and late emergence (like Redstem and bulrush) may escape an early herbicide application.

APPLICATION INFORMATION

Use rate

PERCUTIO GR: 13.3 pounds per acre per year

PERCUTIO GR Dry Application

PERCUTIO GR is applied as a dry application (without dilution in water)

Precautions for this kind of application:

- Loading, application and equipment calibration instructions provided by the equipment manufacturer have to be followed
- Do not apply PERCUTIO GR to dry (non-flooded) rice fields
- Do not mix PERCUTIO GR with any liquid carrier (like water or oil), nor any surfactant or crop oil
- Some crops are sensitive to PERCUTIO GR. Therefore avoid all direct and indirect contact with nontarget crops (or fields intended to be planted with sensitive crops)

PERCUTIO GR Sequential Application

PERCUTIO GR fits well in typical weed management programs. Sequential applications with commonly used herbicides registered for rice are suggested to complete the weed spectrum, especially for grass weeds.

Refer to the companion herbicide label(s) for all applicable use directions, restrictions (including any water-holding requirements), and precautions. Read and follow the entire label of each product to be used sequentially with this product.

Aerial Application Directions

Application equipment used to deliver PERCUTIO GR should be calibrated to accurately and uniformly distribute PERCUTIO GR to the target area. Equipment should be monitored during application to ensure that appropriate rate and coverage are maintained. Overlaps that result in a higher than labeled rate must be avoided. PERCUTIO GR application must be avoided in wind speeds exceeding 10 mph.

Application Timing

PERCUTIO GR application timing should be based on the appropriate rice growth stage and is also dependent on the species of weeds present and their growth stage. The application timing for continuous flooded rice production is the 1 to 2 leaf stage of rice. This typically corresponds to the 1 to 2 leaf stage of weeds. To achieve the best weed control, apply PERCUTIO GR to young, actively growing weeds. It is important to scout fields regularly to ensure weeds do not become too large before the herbicide application is made.

PERCUTIO GR can only be applied to flooded rice.

Due to the selectivity for use on rice, PERCUTIO GR can be applied at very early stages of the crop. Occasionally, in the presence of very high temperatures, transient symptoms of chlorosis and slight vigor reduction may appear on rice, but the crop recovers within a few days without any adverse effect on yield.

Water Management

24 - 48 Hours Prior to Application:

- Prior to application, a 3-inch minimum water depth must be established covering the shallowest part(s) of the field. Average water depth for the remainder of the field must be 4- to 5-inches. Weeds must be completely submerged. No soil can be exposed within the field.
- If rainfall occurs prior to application, do not apply PERCUTIO GR until water depth meets the requirements listed above.

0 - 7 Days Following Application:

- For optimum weed control, maintain a static flood for 7 days immediately following application.
- During the static flood period, maintain a minimum water depth of 3 inches. If required, water can be slowly added to maintain correct water depth.
- If water is lost from the field or any part of the field, immediately reflood.
- Failure to maintain an adequate flood may result in reduced weed control.

8 - 14 Days Following Application:

- After the 7-day static flood period, it is required that water not be released for at least an additional 7 days.
- During this time, water depth must be maintained or increased as rice grows. Shallow water conditions can result in reduced weed control as it may promote emergence of additional weeds.
- If water is lost from the field or any part of the field, immediately reflood.
- Failure to maintain a flood may result in reduced weed control.

At the conclusion of the 14-day period, it is important to manage water flood depth to prevent secondary weed emergence which can occur if an adequate flood depth is not maintained.

Resistance Management

The mode of action (MOA) of PERCUTIO GR is via the inhibition of the acetolactate synthase (ALS) inhibiting enzyme. The repeated use of herbicides with the same mode of action may result in the emergence of weed species biotypes that are resistant to that mode of action or family of herbicides. Resistance may develop in a number of ways such as altered target site sensitivity, enhanced metabolism, or altered plant characteristics that affect the absorption and translocation of the herbicide to the site of action.

PERCUTIO GR and other pesticides should be incorporated into an Integrated Pest Management (IPM) program that can include the use of cultural, biological, and other chemical practices to prevent economical pest damage. Effective IPM practices include the use of weed free seed, proper scouting and identification of weeds within each field or paddy, optimum water management (adequate soil moisture at the time of application and maintaining the permanent flood), pesticide treatment at the appropriate target stage, crop rotation, and mechanical weed control when appropriate. This list is not inclusive and should be used in conjunction with other practices to further prevent resistance development.

To delay or avoid resistance, any or all of the following practices are recommended:

1. Always apply PERCUTIO GR at 13.3 pounds formulated product per acre
2. Avoid following an ALS-inhibiting herbicide application with another herbicide application of the same mode of action
3. The use of ALS herbicides in consecutive years should be done in conjunction with herbicides containing other modes of action
4. Monitor escaped weeds and control them before they can produce seed
5. Contact and follow local extension and/or consultant recommendations relative to resistance management
6. Do not apply PERCUTIO WG or STRADA to the same field in the same growing season that an application of PERCUTIO GR has been applied

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed through storage and disposal.

Pesticide Storage: Store under well-vented, cool and dry storage conditions. Do not store under moist conditions.

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

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling, if available, or dispose of bag in a sanitary landfill, or by incineration, if permitted by State and local authorities.

IMPORTANT NOTICE—Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

PERCUTIO™ and Chemtura AgroSolutions™ are Trademarks of Chemtura Corporation

©Copyright 2011, Chemtura Corporation