



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 28, 2022

Mardel Rose Belotinsky
Registration Manager
Soil Chemicals Corporation d/b/a Cardinal Professional Products
8100 Arroyo Circle
Gilroy, CA 95020-7305

Subject: Registration Review Label Mitigation for Methyl Bromide
Product Name: CARDINAL MB100 TECHNICAL
EPA Registration Number: 8536-44
Application Date: December 14, 2020
Decision Number: 582718

Dear Ms. Belotinsky:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Methyl Bromide Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Page 2 of 2
EPA Reg. No. 8536-44
Decision No. 582718

If you have any questions about this letter, please contact Marisa Wright by phone at 202-566-2335, or via email at wright.marisa@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

Mar 28, 2022

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 8536-44



Cardinal MB100 Technical

*A Nematicide/Insecticide/Fungicide/Herbicide for Formulation or Repackaging into Restricted End-Use Pesticide Products
Intended for Pre-Plant Soil Uses or Commodity Food/Non-Food Uses*

ACTIVE INGREDIENT:**By Wt.**
Methyl Bromide 100%



DANGER • PELIGRO • POISON



KEEP OUT OF REACH OF CHILDREN

*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 inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. Keep warm. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth-to-mouth, if possible. • Do not give anything by mouth to an unconscious person. If <u>not unconscious</u>, rinse mouth out with water. • In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.
If swallowed:	<ul style="list-style-type: none"> • 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 by a poison control center or doctor. • Do not give anything to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Immediately remove contaminated clothing, shoes, and any other items on skin. • Rinse skin immediately with plenty of water for 15-20 minutes. • In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.
If in eyes:	<ul style="list-style-type: none"> • Hold eyes 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 eyes. • In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN

Early symptoms of overexposure are dizziness, headache, nausea and vomiting, weakness, and collapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities; these effects are the usual cause of death. Repeated overexposures can result in blurred vision, staggering gait, and mental imbalance, with probable recovery after a period of no exposure. Blood bromide levels suggest the occurrence, but not the degree, of exposure. Treatment is symptomatic.

EMERGENCY PHONE NUMBER: Chemtrec, 1-800-424-9300

[See left side panel for additional Precautionary Statements.]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Extremely hazardous liquid and vapor under pressure. Fatal if inhaled or swallowed. Corrosive. Causes skin burns and irreversible eye damage, both of which may have a delayed onset. Do not breathe vapor or gas. Inhalation may cause serious acute illness or delayed lung, nerve, or brain injury. Do not get in eyes, on skin or on clothing.

Methyl Bromide vapor is odorless and non-irritating to skin and eyes during exposure. Exposure to toxic levels may occur without warning or detection by user.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear loose-fitting or well-ventilated long-sleeved shirt and long pants, shoes and socks, full-face shield or safety glasses with brow and temple shields (DO NOT WEAR GOGGLES) when handling liquid product. A respirator is required if the acceptable air concentration level of Methyl Bromide in the working area, as measured by a direct-reading detector device (e.g. Draeger hand pump and detector tube, etc.), exceeds 1 ppm. The respirator must be one of the following types: (a) a supplied air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F). Do not wear jewelry, gloves or boots when handling. Methyl Bromide is heavier than air and may be trapped inside clothing and cause skin injury. If liquid spills or splashes on clothing, shoes or socks, remove them immediately. Do not reuse contaminated clothing or shoes until thoroughly aerated or ventilated and cleaned. Discard clothing and shoes that have been heavily drenched or contaminated with this product.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish, and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. In fires fueled by other materials, Methyl Bromide may liberate hazardous gases. The use of Methyl Bromide with aluminum, magnesium, zinc and alkali metals will result in the liberation of toxic gases, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals will occur.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Methyl Bromide may be used only for repackaging or formulating into an end-use product intended for pre-plant soil use or commodity food/non-food use.

Registration by the U.S. Environmental Protection Agency is required before the end-use product can be lawfully distributed in interstate commerce.

Methyl Bromide is a highly hazardous material and should be used only by individuals trained in its proper use. All persons working with Methyl Bromide must be knowledgeable about the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the fumigant.

SPECIAL USE INSTRUCTIONS FOR THE FORMULATION OR REPACKAGING OF METHYL BROMIDE INTO AN END-USE PRE-PLANT SOIL FUMIGANT

Only for formulation into a pre-plant soil fumigant for uses, users, and locations that at the time of the application qualify for exemptions under the Montreal Protocol (i.e., quarantine and pre-shipment exemption uses). All end-use products that contain *Directions for Use* for crops/use sites that at the time of the application do not qualify for exemptions under the Montreal Protocol or that are not listed above must be changed to remove those crops/use sites. All structural/space uses have been cancelled.

Methyl Bromide formulated into end-use products containing 98% methyl bromide must contain directions for use only for quarantine uses. All other use sites and use patterns are prohibited and must be removed from the end-use product labeling. Methyl bromide cannot be formulated into end-use products labeled for pre-plant uses without the use of tarps.

Methyl Bromide cannot be formulated into end-use products labeled for pre-plant or pre-transplant uses unless the end-use registrant makes available to certified applicators who purchase or apply the end-use product a registrant-developed training program approved by EPA. The training program must provide information on (1) how to correctly apply the fumigant, including how to comply with the new label requirements; (2) how to protect handlers and bystanders; (3) how to determine buffer zone distances; (4) how to complete an FMP and the post-application summary; (5) how to determine when weather and other site-specific factors are not favorable for fumigant application; (6) how to comply with required GAPs and how to document compliance with GAPs in the FMP; and (7) how to develop and implement emergency response plans. The registrant developed training program must be made available at least annually to the certified applicators. The end-use registrant must be able to provide, upon request, the names, addresses, and certified applicator license and/or certificate number of persons who successfully complete the registrant-developed training program.

Methyl Bromide cannot be formulated into end-use products labeled for pre-plant or pre-transplant uses unless the end-use registrant ensures Buffer Zone signs suitable for posting buffer zones or templates for the buffer zone signs are available to its downstream distributors/customers who in turn will provide the signs at the point of sale. Templates may be downloaded from <https://www.epa.gov/soil-fumigants/buffer-zone-sign-template>.

The Buffer Zone signs must meet the following standards:

- Signs must remain legible during the entire posting period and must meet the general standards outlined in the WPS for sign size, text size, and legibility (see 40 CFR §170.120).

Contents of Sign

- “Do Not Walk” symbol
- “DO NOT ENTER/NO ENTRE”,
- “Methyl Bromide [Name of Product] Fumigant BUFFER ZONE“,
- Space for contact information for the certified applicator in charge of the application.

This product may be used to formulate products for any additional use(s) not listed on the MUP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s).

Storage and Disposal

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

Pesticide Storage: Store in a locked, well-ventilated area. Post as a pesticide storage area.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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 Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Containers are the property of **Cardinal Professional Products**. Return empty containers according to company’s return policy. Replace safety caps and valve protection bonnets prior to returning cylinders. Return partial containers only after consulting with company for proper shipping instructions.

SPILL AND LEAK PROCEDURES

Immediately evacuate everyone from the area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirator) specified under the *Personal Protective Equipment (PPE)* section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow spilled fumigant to evaporate. Only correctly trained and PPE-equipped handlers are permitted to perform such cleanup. Do not permit entry into spill area by any other person until air concentration level of methyl bromide is measured to be less than 1 ppm.

Contaminated soil, water and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if the reportable quantity of 1000 pounds is exceeded.

NOTICE: Contains methyl bromide, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

STATEMENT OF WARRANTY AND LIABILITY

Seller warrants that this product complies with the specifications expressed in this label. SELLER MAKES NO OTHER WARRANTIES; AND DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE INTENDED PURPOSE. To the extent consistent with applicable law, Seller's liability for default, breach, or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.

Produced for:

**Soil Chemicals Corporation D/B/A Cardinal Professional Products
P. O. Box 782 • Hollister, CA 95024-0782 • U.S.A.**

EPA EST. 11220-CA-8

LOT NUMBER: _____

NET WT.: _____ [50 or 150 lbs.]