

CRYONITE®

**Insecticide
Liquid CO₂ DEVICE**

COMMERCIAL USE

WARNING: PRODUCT UNDER PRESSURE

READ THE LABEL AND MANUAL BEFORE USING.

GUARANTEE: Liquid Carbon Dioxide 99.8%

REGISTRATION NO. 29573 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 10 kg

REST ASSURED MC INC.
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PRECAUTIONS

CONTENTS UNDER PRESSURE. Container may explode if heated.

KEEP OUT OF REACH OF CHILDREN.

Contact with solid or liquid carbon dioxide will result in severe burns and frostbite.

DO NOT get in eyes.

DO NOT get on skin.

Avoid contact with clothing.

Wear long-sleeved shirts, long pants, shoes and socks, chemical-resistant gloves, and a full face shield when applying the product. When the product is applied in enclosed spaces that can not be appropriately ventilated, also use either a NIOSH/MSHA approved supplied-air respirator, or a NIOSH/MSHA approved self-contained breathing apparatus (SCBA).

Electrical receptacles and other electrical equipment:

Caution should always be used when working in these areas. Electricity must be shut off when working on, in or around electrical apparatus. Cryonite is in itself dry, but as the surface temperature drops, condensation may form. Only the immediate surface is cooled, the cooling effect doesn't penetrate into the objects treated. The surfaces will regain ambient temperatures quickly, and any moisture will rapidly evaporate. However, caution should be shown in areas of higher humidity. Do not use directly on sensitive equipment, screens or digital displays.

Exposure may result in suffocation or death. Work spaces adjacent to treatment area should be monitored for carbon dioxide.

After treatment, aerate treated areas until the level of CO₂ (as measured by a CSA approved CO₂ detection device capable of providing accurate measurements from below 5000 ppm to at least 30 000 ppm) is below 5000 ppm.

Re-entry (5000-30 000 ppm CO₂): If CO₂ levels are between 5000 and 30 000 ppm, workers may re-enter the treated area without respiratory protection for 15 minutes or less. For periods longer than 15 minutes, use either a NIOSH approved supplied-air respirator or a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) with a full face shield.

If CO₂ levels are over 30 000 ppm or are unknown, re-entry into the treated area is not permitted.

A self-contained breathing apparatus should always be available for emergency use.

All persons working with this product should be knowledgeable of this chemical's hazards, in the use of required respirator equipment and detector devices, in emergency procedures and in the use of the product. When used for treatment of enclosed spaces, two persons familiar with the use of this product must be present during introduction of the pesticide, initiation of aeration and after aeration when testing for re-entry. Two persons do not need to be present if monitoring is conducted remotely (outside of area being treated).

Bystanders and companion pets should not be permitted post-application access to treated areas unless the concentration of carbon dioxide is at or below 5000 ppm.

FIRST AID INSTRUCTIONS

IF SWALLOWED: Call a poison control centre 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 a poison control centre 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 centre or doctor for treatment advice.

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 centre 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 centre or doctor for treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

DISPOSAL

Contents: Bulk CO₂ vessels are generally moved empty and depressurized. The usual method to dispose of unused, unwanted CO₂ is to dilute it with air by venting. Care must be exercised to prevent accumulations of high concentration of vented CO₂ gas in an enclosed or low lying area. This is usually accomplished by very slow venting of the CO₂ to avoid a local asphyxiation hazard.

Container: Bulk CO₂ vessels should be removed and disposed of only by qualified CO₂ service personnel. Return empty CO₂ cylinders for re-use or disposal. When cylinder is empty, close valve, screw safety cap onto valve outlet and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instruction for return of empty or partially empty cylinders.

STORAGE

Do not contaminate water, food or feed by storage or disposal. Store in bulk CO₂ vessels that are permanent or semi permanent installations or in approved CO₂ cylinders. Store cylinders in a dry, cool, well-ventilated area under lock and key. Placard as a pesticide storage area. Store cylinders

upright and secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using a hand crank or fork truck to which the cylinder can be firmly secured. Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

SPILL AND LEAK PROCEDURE

Evacuate the immediate area where the leak has occurred. Use SCBA or combination air supplied/ SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors to an isolated location, observing strict safety precautions. When completely empty, return to manufacturer if instructed or dispose of leaking or damaged cylinders or containers in accordance with Provincial and Local waste disposal regulations. Do not permit entry into spilled area by unprotected persons until concentration of carbon dioxide is determined to be less than 5000 ppm.

LEAKING BULK CO₂ VESSEL OR ITS ATTACHED PIPING

In the event of a leakage from a bulk CO₂ vessel or its attached piping, close the upstream valve to isolate the leaking section. Depressurize the affected section and remove or repair the leak. If shutting off the valves at the vessel fail to stop the leakages, contact the local CO₂ service personnel to pump out or unload the vessel before proceeding with repairs.

LEAKING OR DAMAGED CYLINDERS

Move leaking or damaged cylinder outdoors or to an isolated location, observing strict safety precautions. When completely empty, return to manufacturer if instructed or dispose of leaking or damaged cylinders or containers in accordance with Provincial and Local waste disposal regulations. Do not permit entry into spill area by unprotected persons until concentration of carbon dioxide is determined to be less than 5000 ppm.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE:

Indoor Use Only.

Cryonite kills flour beetles, cockroaches and bed bugs in structures such as food manufacturing facilities, factories, health care facilities (e.g., hospitals), educational institutions (e.g., universities, colleges), transport vehicles (e.g., boats, trucks, trains, airplanes), hospitality facilities (e.g., hotels, motels, inns, bed and breakfasts, hostels), commercial buildings (e.g., restaurants, malls, movie theatres, stores, offices) and residential buildings (e.g., homeless shelters, houses, apartments). Cryonite may also be used on furniture, machinery and electrical equipment.

The Cryonite system consists of a trolley, hose, the lance, the jet nozzle, the grounding cable and a

CO₂ cylinder. Listed insect pests are killed by freezing when they come in contact with the CO₂ dry ice particles (snow) delivered by the Cryonite system. Larger insect pests may require more freezing power. Freezing power can be adjusted by putting more or less pressure on the trigger mechanism of the device. Cryonite should be directly applied to the listed insect pests. It has no residual activity.

It is important that the snow layer is not too thin or too thick. If the snow is too thin, the temperature is not cold enough to kill. If the snow is too thick, the snow will work as an insulator trapping a layer of gas under the snow. The temperature will not be reduced enough and insects will not be killed. Thick layers also cause unnecessarily deep chilling of materials, possibly causing a moisture or material problem. When applying to cracks and crevices, avoid applying a thick layer because the entrance to the crack or crevice will be filled with snow and it will not allow a second application to be applied. Insects trapped behind the snow will not be killed.

As a guideline, the layer of snow should be gone in 20-30 seconds. It's better to apply two or three times immediately one after another than apply once in one thick layer. Apply by moving the nozzle back and forth motion, rather than just once slowly. When using the standard nozzle, the ideal spraying distance is usually 10-20 cm from the target site but this can be varied depending on the individual characteristics of the environment being treated.

Target insects located in areas inaccessible to Cryonite will not be killed. Cryonite cannot penetrate through thick layers of dust or previously applied layers of Cryonite snow. It is essential that the area be cleaned prior to treatment. As a result of the high pressure, Cryonite may also contribute to cleaning by blowing dirt out of inaccessible areas. Cleaning helps against re-infestation by listed pests.

The jet nozzle can be used in confined and hard-to-reach spaces. The jet nozzle can also be used to clean and remove breeding places that are difficult to reach. Don't use the jet nozzle if you don't have to. The snow quality of the standard nozzle is better and the penetration in cracks and crevices is still very good.

Cryonite should be used in conjunction with other pest control practices (e.g., vacuuming, sanitation). It is important to be thorough and systematic. Remember to use good pest control practices including:

1. Inspect - look for all possible hiding places, or traces of activity.
2. Clean those areas. Use a vacuum cleaner if appropriate.
3. Treat insect harborages with Cryonite, for example, cracks, crevices, pallets, under bags etc.
4. Evaluate the findings and review the frequency of cleaning procedures.
5. Monitor on a regular basis.
6. Repeat if pests continue to be a problem.

Insects may be moved by the gas pressure produced by Cryonite. Releasing the amount of pressure being applied to the trigger of the device by half may reduce this problem.

To determine whether it is safe to treat an object, apply Cryonite in a small, inconspicuous area prior to treating the entire surface.

Bed bugs: Bed bugs are difficult to control. Treat the infested area with Cryonite. Wait 20 minutes and re-treat for any additional bed bugs that come out of hiding. A registered pest control product to provide additional control may be necessary.

Cockroaches:

German cockroaches are killed at all stages. It may be more difficult to kill adults of larger cockroach species.