

PM 19 10163-177

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO.	DATE OF ISSUANCE
	10163-177	October 4, 1991
	TERM OF ISSUANCE	
		Until Reregistration
		NAME OF PESTICIDE PRODUCT
		Prokil Parathion 8 Flowable

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Gowan Company  
 P.O. Box 5569  
 Yuma, Arizona 85366

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the following label changes:

- a. Add the phrase, "EPA Registration No. 10163-177."
- b. Revise the Restricted Use Statement to read as follows:

For retail sale only to certified commercial aerial applicators or persons under their direct supervision. For use only by certified commercial aerial applicators. Direct supervision for this product is defined as the certified commercial aerial applicator being physically present during mixing, loading, repair and cleaning of application equipment. Certified commercial aerial applicators must also ensure that all persons involved in these activities are informed

ATTACHMENT IS APPLIED to the precautionary statements.

SIGNATURE OF APPROVING OFFICIAL	DATE
<i>Dennis H Edwards</i>	10/4/91

- c. Add the Skull and Crossbones symbols to the front panel, as required on all toxicity category I products.
- d. In the Statement of Practical Treatment, delete the phrase "...for at least 15 minutes" from the instructions for "If In Eyes".
- e. On page 2, under the Precautionary Statements, delete all references to a "dust", ie. "spray mist or dust may be fatal..."
- f. In the "Work Safety Rules" section, change the word "pest" to "pets" ("Keep all unprotected persons, children, livestock , and pets...").
- g. Under soybeans, delete the directions listed for control of white grubs and wireworms (broadcast spray...incorporate into upper 4 to 6 inches of soil).
- h. Add the Human Flagger Restriction Statement to the Work Safety Rules (Human Flaggers are strictly prohibited).
- i. Delete canola and its associated crop use recommendations. Until the required residue data are submitted, this is a pending use.
- j. Under the Crop Use Recommendations, the maximum amount of this product which may be used in California on alfalfa, should be 3/8 pint per acre.
- k. In the recommendations for use on sorghum, replace "Use 1/2 pint to 1/2 quart..." with "Use 1/2 to 1 pint per acre...".

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.

DHE  
 Dennis H. Edwards Jr.  
 Product Manager 19  
 Insecticide-Rodenticide Branch  
 Registration Division (H7505C)

enclosure

**RESTRICTED USE PESTICIDE**  
**Due to very high acute toxicity to humans and birds**

For retail sale and use only by certified commercial applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

**PROKIL PARATHION 8 FLOWABLE**

Active Ingredients:	
Parathion: O,O-diethyl O-p-nitrophenyl phosphorothioate.....	<u>By weight</u> 76.76%
Related Active Isomers of O,O-diethyl O-p-nitrophenyl phosphorothioate.....	3.68%
Inert Ingredients.....	<u>19.56%</u>
<b>TOTAL...100.00%</b>	

Contains 8 lbs. parathion per gallon.

**STOP - READ LABEL BEFORE USING**  
**KEEP OUT OF REACH OF CHILDREN**

**POISON      DANGER      PELIGRO**

Precaucion al usuario: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

SEE SIDE PANELS FOR STATEMENT OF PRACTICAL TREATMENT SECTION AND ADDITIONAL PRECAUTIONARY STATEMENTS.

NET CONTENTS \_\_\_\_\_ GALLONS

**GOWAN COMPANY**

EPA REG. NO. 10163-XXX  
EPA EST. NO.

P.O. BOX 5569  
YUMA, AZ 85366

OCT 4 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10163-177

**STATEMENT OF PRACTICAL TREATMENT**

Call a physician or Poison Control Center immediately. Explain that the victim has been exposed to parathion and describe his condition.

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

**IF IN EYES:** Flush eyes immediately with plenty of clear water for at least 15 minutes. Get medical attention.

**IF ON SKIN:** Remove contaminated clothing and shoes and wash skin immediately with soap and water.

**IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER-POISON**



**POISONOUS IF SWALLOWED**

This product can kill you if swallowed even in small amounts; spray mist or dust may be fatal if swallowed.

**POISONOUS BY SKIN CONTACT**

Poisonous if touched by hands or spilled or splashed on skin, in eyes, or on clothing (liquid goes through clothes.)

**POISONOUS IF BREATHED**

Breathing vapors, spray mist, or dust may be fatal.

**NOTE TO PHYSICIAN:** Antidote--Administer atropine sulfate in large doses, two to four mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

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**WORK SAFETY RULES:** The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment, and other information regarding the toxicity of parathion. The toll free number is 1-800-858-7378. If handled indoors, provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pest away from treated area or where there is a danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See STATEMENT OF PRACTICAL TREATMENT section.

**IMPORTANT:** If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

**AFTER WORK:** Wash gloves with soap and water before removing. Take off all work clothes and shoes. Store protective clothing separately from personal clothing. Launder protective clothing after each use. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Personal clothing worn during mixing/loading, application, repair and cleaning of application equipment, disposal of pesticide, and early reentry into treated fields must be stored and laundered separately from household articles. Clothing and equipment heavily contaminated or drenched with parathion must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

Respirators should be cleaned and cartridges replaced according to instructions included with respirators. Replace gloves frequently.

**Poison Signs (symptoms):** Parathion is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Symptoms of poisoning include: headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms, and coma.

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to fish and wildlife; Birds in treated areas may be killed. Do not apply directly to water or wetlands (swamps, marshes, bogs, and potholes).

Run-off and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

This product is extremely toxic to bees exposed to direct treatment

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or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops or weeds if bees are visiting treatment area.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Keep container closed. Do not heat this material above 131°F (55°C). Store at temperatures above freezing to avoid crystallization.

**DIRECTIONS FOR USE**

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

**CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

**REENTRY STATEMENT**

CROP	REENTRY LEVEL	STATES
Corn	6 days	all
Cotton & other crops	3 days	all

**GENERAL REENTRY LIMITATION:** While an area is being treated with this product and during the first three days after treatment (six days after treatment if the crop treated is corn), or any longer period of time prescribed by State law or regulation, no person may enter or remain in the treated area or within 100 feet of the treated area.

**EXCEPTION:** After four (4) hours have passed since the end of the application, a person may enter the treated area to perform scouting or irrigation-related work in accordance with the following requirements:

- (a) No person shall remain in the treated area for a total of more than 1 hour in any 24-hour period.
- (b) Before entering the treated area, the person must have read the product labeling or have been informed, in a language that the person can understand, of all the requirements of the product's labeling related to human hazards or precautions, first aid, symptoms of poisoning, personal protective equipment specified for early entry, and any other labeling requirements related to safe use.
- (c) The person must wear personal protective equipment consisting of a cotton or other fabric coverall worn over a long sleeved shirt and long pants, chemical resistant boots, and chemical resistant gloves, and shall take appropriate measures to prevent heat-related illness.
- (d) The person must carry an eye-flush dispenser containing at least one pint of water.

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(e) A reasonably accessible decontamination site must be available with adequate supplies of potable water for washing, soap, and single-use towels. After restricted-reentry activity, the person must be provided soap, clean towels, and a sufficient amount of potable water for washing and must wash thoroughly after removing personal protective equipment.

(f) All personal protective equipment worn during restricted reentry must be laundered separately and may not be worn home.

Posting of Treated Areas: Treated areas shall be posted with signs at all usual points of entry or in the corners of the treated areas affording maximum visibility. Written warnings must include the following information: Danger: Area treated with parathion on (date of application.) Do not enter without appropriate protective clothing for (period specified for treated crop.) In case of accidental exposure, follow instructions under STATEMENT OF PRACTICAL TREATMENT section.

LIMITS ON APPLICATION:

Aerial Application Only: Parathion may only be applied aurally and only by a certified commercial applicator as defined in FIFRA 2(e)(3).

Areas Where Application is Prohibited: This product may not be applied within 100 feet of buildings, public roads, or bodies of water. Parathion may not be applied within 100 feet of property lines unless the owner of the adjacent property has given prior written consent to the application and has been informed of the timing of the application and the appropriate reentry requirements.

Drift Reduction Measures: Do not apply this product if the wind exceeds 10 miles per hour. Apply only from nozzles located not more than 75% of the distance from the center of the aircraft to the wing tip or helicopter rotor tip.

Notification to Land Owner: A certified commercial applicator shall not apply this product to a person's property unless the applicator has notified the person in writing no more than 12 months before the date of the application of: the requirement that crops treated with parathion be harvested mechanically; the appropriate reentry interval and the requirements concerning reentry set forth on this label; and the incident reporting requirements set forth on this label.

PROTECTION OF APPLICATORS, MIXER-LOADERS, AND MAINTENANCE PERSONNEL

Applicator Protection: The cockpit of the aircraft used to apply this product must be fully enclosed while the product is being

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applied. No pilot may apply this product if the pilot has earlier during the day of application performed any mixing/loading activities (other than acting as an observer) involving any pesticide product containing ethyl parathion.

Maintenance Personnel Protection: The following protective clothing and equipment must be worn during repair, cleaning of application equipment, and disposal of pesticide: waterproof-suit of one or two pieces covering all parts of the body except the head, hands, and feet; heavy duty chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe coverings or chemical resistant boots); goggles or face shield and wide-brimmed hat; NIOSH approved respirator.

Mixer-loader Protection: An observer must be present during all mixing/loading activities in order to furnish assistance in the event of an accident. The observer may not act as a mixer-loader.

Any person involved in mixing/loading activities (other than the observer) must wear (1) a cotton or other fabric coverall worn over a long-sleeved shirt and long pants, (2) chemical resistant boots and gloves, and (3) when the mixing/loading system is pressurized, a chemically resistant apron and a face shield or goggles.

The liquid product must be removed from its original shipping container and transferred through connecting hoses, pipes, and/or couplings that are sufficiently tight to prevent handlers or other persons from contacting the parathion concentrate, use dilution, or rinsate solution. A complete seal by dry break or screw-on coupling to the opening of the original container shall be required.

All hoses, piping, tanks, and connections used in the system shall be of a type appropriate for the product being used and the pressure and vacuum levels involved. The system shall be designed and operated so that the concentrated form of this product is not under more than 25 psi of pressure at any point in the system beyond or downstream from a pump producing positive pressure. The closed system must be adequate to make necessary measurements of the product being used. External sight gauges shall be equipped with valves so that the flow of pesticide to the sight gauge can be shut off in case of breakage or leakage from the gauge.

Dry-break coupling shall be used for all hose connections that may be disconnected during normal mixing-loading operations (excluding periodic maintenance). A coupling shall be considered to be a dry-break coupling only if its manufacturer certifies that less than 2 milliliters of liquid will escape per disconnect.

In mixing-loading operations, do not pour this product from its container. Before opening the container, make sure that the container is resting securely on the ground or a sturdy support.

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with the top (opening) end up and approximately level.

Remove the product from the container only by use of a vacuum-producing pump system connected to a probe system that is listed by the State of California under the State's program establishing criteria for closed-system handling of Toxicity Category I pesticides (for instance, the "Chemprobe R Model II" system sold by Cherlor Mfg. Co., Inc., P.O. Box 2174, Salinas, CA 93902, telephone (408) 422-5477) or Protector Mfg. Co., 20189 Firerock Rpo., Bend, OR 97701, telephone (503) 382-6886). The probe system shall be screwed into the threaded opening in the top of the container, using appropriate adaptors provided by the probe manufacturer as necessary. The instructions provided by the seller of the probe system shall be followed, except that a removable probe may not be removed from the container until the container is empty and the container and probe have been thoroughly rinsed as required by this section.

The closed system must provide for adequate rinsing of any removable probe and of all containers that are not labeled for return to the registrant. Rinsing must be done using a liquid that contains no pesticide. The rinsing system must be capable of spray-rinsing the inner surface of the container. The rinse solution shall be removed from the pesticide container concurrent with the introduction of the rinse medium. The rinse solution shall go into the pesticide mix tank or applicator vehicle via the closed system.

The system shall be rinsed according to the specifications of the manufacturer of the probe system, or, in the absence of such specifications, by moving at least one half the container volume through the system. A minimum pressure of 15 psi shall be used for the spray rinse. Measures shall be taken to prevent the spray rinse procedure to cause an increase of pressure on the inside of the container walls of more than 5 psi.

Either the operator of the closed system must have available at the time of operation a complete set of written instructions for proper operation of the system, or the certified applicator must document in writing before an operator uses the closed system that the operator has been adequately trained in the proper operation of the system.

INCIDENT REPORTING: A telephone notification must be made if mixing, loading, or use of a product containing parathion results in (1) inadvertent or unexpected human exposure to the product or illness resulting from exposure to the product, (2) spill of the product, (3) an investigation by Federal, State, or local authorities of allegations involving drift of the product, or (4) the deaths of birds or other wildlife. The certified applicator or the owner of the treated lands must notify by telephone the Chief, Compliance Branch, Office of Compliance Monitoring, US EPA, at (202) 260-3375 within seven (7) days of becoming aware of the incident.

## STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** DO NOT use or store near heat or open flame. Keep container closed. Do not heat this material above 131°F (55°C). Store at temperatures above freezing to avoid crystallization.

DO NOT contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. 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 DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

**CONTAINER DISPOSAL: (RETURNABLE):** This container is the property of Gowan Company, P.O. Box 5569, Yuma, AZ 85366 and should be returned to the supplier. Customer should not attempt to remove fittings and should not attempt to rinse or dispose of the container. Direct any questions to your supplier.

## CROP USE RECOMMENDATIONS

Add the specified rate of Prokil Parathion 8F in 1 to 3 gallons of water per acre for aerial application.

This product may not be applied to any crop other than alfalfa, barley, corn, cotton, sorghum, soybeans, sunflower, and wheat. Any treated crop may be harvested only by mechanical means; hand harvesting of a treated crop is prohibited.

**ALFALFA:** For control of sweet clover aphids, three-cornered alfalfa hoppers, alfalfa caterpillars, and spittlebugs; Use 1/4 pint per acre. For control of aphids, alfalfa weevil larvae and adult weevils, armyworms, clover leaf weevils, climbing cutworms, webworms, grasshoppers, crickets, spotted alfalfa aphids, leafhoppers, Lygus bugs, thrips, and tortricid moths; Use 1/4 to 1/2 pint per acre. For control of range caterpillar; Use 1/2 pint per acre. For alfalfa seed chalcids control on alfalfa grown for seed, use 1/4 to 1/2 pint per acre. In California; Use a maximum of 3/4 pint per acre. Do not apply within 15 days of harvest, pasturing, cutting, or forage use. Do not apply during bloom period to avoid injury to honey bees.

**CANOLA (For oil):** Not for use in California. For cabbage seedpod weevil; Use 1/2 to 1 pint per acre. Make first application when two or more weevils may be found per plant on young pods. Use higher rate during cool weather or where infestations are heavy. If treatment is necessary during bloom, treat only from evening to morning to protect bees. Do not apply later than 3 hours after sunrise. Do not graze field or feed forage or seed screenings to

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livestock. Do not apply within 28 days of harvest.

**CORN (SWEET, FIELD, AND POP):** For control of European corn borers; Use 1/2 to 1 pint per acre. Apply the first spray when 75% of corn plants show SHOT-HOLE feeding and follow with two additional sprays at 5 to 7 day intervals. Use sufficient water per acre to provide complete coverage and be certain whorls of plants are well treated. For control of corn leaf aphids and grasshoppers; Use 1/4 to 1/2 pint per acre. For control of fall armyworms, corn earworms, corn rootworm adults, armyworm up to third instar, climbing cutworms, and Japanese beetles; Use 3/8 pint per acre. For control of stink bugs and spider mites; Use 1/2 pint per acre. For control of chinch bugs; Use 3/4 pint per acre. Do not apply within 12 days of harvest, cutting, or forage use. Do not apply to corn during the pollen shed period. Review the reentry interval specified for this crop located in the REENTRY STATEMENT section of this label.

**COTTON:** For control of aphids, mites, cotton leafworms, cotton fleahoppers, garden webworms, and thrips; Use 1/4 pint per acre. For some spider mites; Use 1/8 to 1/4 pint per acre. For cabbage loopers; Use 3/8 to 1/2 pint per acre. For boll weevils and stink bugs; Use 1/2 to 3/4 pint per acre. For salt-marsh caterpillars; Use 1/2 to 1 pint per acre. For bollworms, cotton leaf perforators, Lygus bugs, false chinch bugs, serpentine leaf miners, and southern garden leafhoppers; Use 1/2 quart per acre. Use enough water for complete coverage. Make first application when insects appear and repeat at 7 day intervals if required. Do not apply within 7 days of harvest.

**WHEAT - BARLEY:** For control of armyworms up to third instar, winter grain mites, and aphids (greenbugs); Use 1/4 pint per acre. For thrips, use 1/4 to 3/8 pint per acre. For grasshoppers, brown wheat mites, black grass bugs, stink bugs, white spider mites, leafhoppers, climbing cutworms; Use 1/2 pint per acre. For Say's plant bugs; Use 3/8 pint per acre. For chinch bugs, false chinch bugs, and banks grass mites; Use 3/4 pint per acre. Do not apply within 15 days of harvest, cutting or forage use.

**SORGHUM:** For control of sorghum midge; Use 1/2 pint to 1/2 quart per acre, 2 applications 3 to 5 days apart when approximately 90% of the heads have completely emerged from the boot or not later than start of blooming. For corn leaf aphids and mites; Use 1/4 pint per acre. For sorghum webworms, fall armyworms, armyworms up to third instar, and corn earworms; Use 3/8 to 1/2 pint per acre. To control chinch bugs, use 3/4 pint per acre. Leaf injury may occur on some hybrid varieties of sorghum. Do not apply within 12 days of harvest, cutting or forage use.

**SOYBEANS:** For control of webworms; Use 1/4 pint per acre. For control of velvet bean caterpillars, grasshoppers, green cloverworms, two-spotted mites, and stink bugs; Use 1/2 pint per acre. For control of corn earworms and fall armyworms; Use 1/2 to 4/5 pints per acre. For control of white grubs and wireworms, broadcast 1/2 gallon per acre just prior to planting and thoroughly incorporate into upper 4 to 6 inches of soil. Do not apply more

than 2 applications per growing season. Do not apply within 20 days of harvest or forage use.

**SUNFLOWERS:** For control of sunflower moth; Use 1/2 to 1 pint per acre with 2 to 3 repeat applications at 5 day intervals. Hybrid sunflowers completely bloom in 12 to 15 days thus the initial application should be made at onset of flowering or before 10% of plants begin to flower and moth and young larvae are present. Do not apply within 30 days of harvest.

**CONDITIONS OF SALE**

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

