


10711  
PMS  
10/22/79

**ACCEPTED**  
MAY - 6 1987  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 10182-719

**RESTRICTED USE PESTICIDE** For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

### PRELUDE HERBICIDE

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**  
  
**POISON**

**DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.  
NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.  
READ DANGER STATEMENTS AND WORKER SAFETY RULES ON  
BACK PANEL.**

**DO NOT USE OR STORE IN OR AROUND THE HOME.  
ONE SWALLOW CAN KILL!  
SYMPTOMS ARE PROLONGED AND PAINFUL ONSET OF  
SYMPTOMS MAY BE DELAYED FOR UP TO 3 DAYS AFTER  
SWALLOWING.**

**PELIGRO**  
**PRECAUCION AL USUARIO:**  
Si usted no lee ingles, no use este producto hasta que la  
etiqueta le haya sido explicada ampliamente.

| Active Ingredient:  | By Wt.          |
|---|-----------------|
| Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride) .....                          | 7.86 %          |
| Linuron [3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea] .....                                   | 2.84            |
| Metolachlor:<br>2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide ..... | 22.75           |
| <b>INERT INGREDIENTS:</b> .....   | <b>66.55</b>    |
| <b>TOTAL</b> .....  | <b>100.00 %</b> |

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**DANGER** Corrosive, causes eye and skin damage.  
 Can Kill If Swallowed. May Be Harmful or Fatal If Absorbed  
 Through Skin or Inhaled.

Call ICI Americas Medical Emergency Information  
 Center 800/327-8633 (Dial 1-800-F-A-S-T-M-E-D).

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** IMMEDIATELY induce vomiting by inserting finger in throat. Administer fluids and induce further vomiting. Get to a hospital or physician fast. PROMPT TREATMENT IS ESSENTIAL and must be initiated before signs and symptoms of injury appear. Note to Physicians:

at any hour to obtain toxicology and medical management consultation, a supply of bentonite clay, and paraquat analysis. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquat poisoning must begin IMMEDIATELY. Treatment consists of binding paraquat in the gut with suspensions of bentonite clay or charcoal and removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis.

**SKIN CONTACT:** IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing with soap and hot water before reuse. Prolonged contact will cause severe irritation. Contact with irritated skin, or a cut, or repeated contact with intact skin may result in poisoning.

**EYE CONTACT:** IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury.

**INHALATION:** IMMEDIATELY get away from spray mist. Exposure may cause irritation, nose bleeds and may lead to poisoning. Stop and check spray procedure. Follow Worker Safety Rules below

**DIRECTIONS FOR USE**

It is a violation of Federal law and may endanger the applicator or third parties to use this product without complying with all label directions and warnings.

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds.

Refer to Supplemental Pamphlet for Use Directions.

**WORKER SAFETY RULES/REENTRY STATEMENTS**

DO NOT get on skin, eyes or clothing.

DO NOT inhale spray mist.

WASH SPLASHES from skin and eyes immediately.

REMOVE and wash contaminated clothing.

WASH before eating, smoking and drinking.

WEAR full face shield, rubber gloves and apron and waterproof footwear when pouring concentrate or when exposure to concentrate is possible.

WEAR waterproof footwear and protective clothing when spraying outside of an enclosed cab or aircraft or when contacting vegetation wet with spray.

DO NOT enter treated areas without protective clothing until sprays have dried.

AVOID working in spray mist. If there is risk of exposure wear goggles and approved face mask capable of filtering spray droplets.

KEEP all unprotected persons out of operating areas or vicinity where there may be danger of drift. Certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

IMPORTANT: The effect of swallowing Paraquat is far more severe than that which usually results from skin contact or inhalation of spray mist. No opportunity for mist or product to cause serious injury or death should arise when used in strict compliance with these rules but the opportunity may arise in case of gross violations so strictly follow all these rules as if your life depends on it.

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**ENVIRONMENTAL SAFETY CAUTIONS**

**WILDLIFE:** This product is toxic to wildlife. Birds and other wildlife in treated areas should not be fed. Do not apply directly to water.

**DRIFT:** PRELUDE is a contact herbicide that kills all green plants under conditions involving possible drift to food, forage, or other plantings that might be rendered unfit for sale, use, or consumption. Do not apply when weather conditions are unfavorable. For aerial applicators use, do not apply during periods of thermal inversions.

**CHEMICAL HAZARD:** This product reacts with aluminum to produce a highly combustible gas mixture. Such gas could flash or explode, causing injury. Do not use in areas where there is an open flame, spark, welder's torch, lighted cigarette, or other ignition source. Containers, spray tanks, nurse tanks, or such systems made of aluminum or hard plastic should be used but should not be used for extended (overnight) storage.

**EQUIPMENT/CONTAINERS:** Flush all spray equipment with water. This product is corrosive to aluminum. Aluminum spray equipment and containers that are exposed to spray solution or spray drift should be flushed thoroughly after use.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Store at temperatures above 32°F. Do not contaminate feed. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs. In case of spill, leak, fire or exposure involving this material, call CHEMTREE 800/424-9293.

**PESTICIDE DISPOSAL:** This product is acutely hazardous. In case of spill, leak, fire or exposure involving this material, call CHEMTREE 800/424-9293. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs. In case of spill, leak, fire or exposure involving this material, call CHEMTREE 800/424-9293. According to label instructions, contact your State Pesticide or Environment Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Do not reuse containers for other purposes. Puncture and dispose of in a sanitary landfill, or dispose of by other procedures approved by local authorities.

**CONDITIONS OF SALE:** 1. ICI Americas Inc. (ICIA) warrants that this material conforms to the label and is reasonably fit for use as directed hereon. ICIA neither makes nor represents to make, any other warranty of FITNESS or of MERCHANTABILITY, express or implied, concerning this material. 2. Critical and unforeseeable factors beyond ICIA's control prevent it from eliminating the use of chemicals. Such risks include, but are not limited to, damage to plants or crops, lack of complete control, and damage caused by drift to other plants or crops. The product is reasonably fit for the uses stated hereon and even though label directions are followed, user acknowledges and assumes all risks and liability (except those assumed by ICIA) in handling, storage and use of this material.



ICI Americas Inc.  
 Agricultural Chemicals Division  
 Wilmington, Delaware 19897

EPA  
 EPA

PRELUDE HERBICIDE

## **Supplemental Pamphlet**

**DIRECTIONS FOR USE  
READ WORKER SAFETY RULES**

**DANGER**



**POISON**

**ONE SWALLOW CAN KILL.**

**SYMPTOMS ARE PROLONGED AND PAINFUL.**

**ONSET OF SYMPTOMS MAY BE DELAYED**

**FOR UP TO 3 DAYS AFTER SWALLOWING.**

*Corrosive, causes eye and skin damage.*

*May Be Harmful or Fatal*

*if Absorbed Through Skin or Inhaled.*

**PELIGRO — PRECAUCION AL USUARIO:**

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

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED**

**IMMEDIATELY** induce vomiting by inserting finger in throat. Administer fluids and induce further vomiting. Get to a hospital or physician fast. **PROMPT TREATMENT IS ESSENTIAL** and must be initiated before signs and symptoms of injury appear. Note to Physicians: Call ICI Americas Medical Emergency Information Center 800/327-8633 (Dial 1-800-F-A-S-T-M-E-D), at any hour to obtain toxicology and medical management consultation, a supply of bentonite clay, and paraquat analysis. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding paraquat in the gut with suspensions of bentonite clay or charcoal and removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis.

**SKIN CONTACT**

**IMMEDIATELY** wash with soap and water. Remove and wash all contaminated clothing with soap and hot water before reuse. Prolonged contact will cause severe irritation. Contact with irritated skin, or a cut, or repeated contact with intact skin may result in poisoning.

**EYE CONTACT**

**IMMEDIATELY** wash eyes with water for at least 15 minutes. Get medical attention. Contact may cause eye damage.

**INHALATION**

**IMMEDIATELY** get away from spray mist. If irritation, nose bleeds and may lead to poisoning. Follow the appropriate first aid and emergency response procedure. Follow Worker Safety Rules.

**WASH AND DESTROY CONTAINER**  
**NEVER REUSE.**

**TO PREVENT ACCIDENTS**  
**NEVER PUT INTO FOOD**  
**OR OTHER CONTAINERS**

**DO NOT USE OR STORE IN OR AROUND**

**DO NOT POUR FROM ORIGINAL**  
**EXCEPT FOR IMMEDIATE USE**

**KEEP OUT OF REACH OF CHILDREN**

**Active Ingredients:**

Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride) .....

Linuron [3-(3,4-dichlorophenyl)-1-methoxy-1-

Metolachlor:

2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methyl-1-methylethyl) acetamide .....

**INERT INGREDIENTS:** .....

**TOTAL** .....

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. READ DANGER AND FIRST-AID TREATMENT ON INSIDE FRONT COVER AND WORKER SAFETY RULES.

NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds.

Always use a nonionic spreader surfactant approved for use with food crops and which contain at least 75% surface active ingredients.

Do not use dirty or muddy water for PRELUDE dilution because PRELUDE will be inactivated.

Do not combine PRELUDE herbicide with liquid fertilizer solutions except as specified below.

PRELUDE herbicide and PRELUDE tank mixes may be applied in liquid nitrogen and/or complete liquid fertilizer solutions (follow label recommendations for crop involved) when 20 to 60 gals. of dilute solution are applied per acre in combination with 1 to 2 pts. of Spreader (nonionic) per 100 gals. Equipment must be adjusted and calibrated to obtain thorough coverage of undesirable vegetation. Inadequate coverage and/or the absence of Spreader (nonionic) will result in a severe reduction of PRELUDE activity. Phosphate containing liquid fertilizer solutions will reduce the activity of PRELUDE. When liquid fertilizer solutions containing phosphorus are used with PRELUDE and a more rapid kill is desired, use the high PRELUDE label rate.

DO NOT combine with suspension-type liquid fertilizers because the activity of PRELUDE will be reduced.

#### PREPLANT OR PREEMERGENCE USES

PREPLANT OR PREEMERGENCE USE - For Kill or Emerged Annual Broadleaf Weeds and Grasses and for Top Kill and Suppression of Perennials - Apply when the weeds and grasses are succulent and growth is from 1" to 6" high (larger plants are less affected by this treatment). Note: To prevent injury to germinating crop seedlings, do not apply preplant or preemergence to soils lacking clay minerals. i.e., peat, muck, pure sand, artificial planting media.



## CONSERVATION TILLAGE USES

PRELUDE tank mixes may be applied in liquid nitrogen and/or complete liquid fertilizer solutions (follow label recommendations for crop involved) when 20 to 60 gals. of dilute solution are applied per acre in combination with 1 to 2 pts. of Spreader (nonionic) per 100 gals. Equipment must be adjusted and calibrated to obtain thorough coverage of undesirable vegetation. Inadequate coverage and/or the absence of Spreader (nonionic) will result in a severe reduction of PRELUDE activity. Phosphate containing liquid fertilizer solutions will reduce the activity of PRELUDE. When liquid fertilizer solutions containing phosphorus are used with PRELUDE, and a more rapid kill is desired, use the high PRELUDE label rate.

**SORGHUM:** PRELUDE alone. Sorghum seed not treated with Concep will be severely injured by PRELUDE application. Broadcast as a ground spray before, during, or after planting, but before crop emergence. Apply the recommended rate of PRELUDE from Table 1 in 20 to 60 gals. of diluted spray per acre. Add Spreader (nonionic) at 16 fl. oz. per 100 gals. of diluted spray.

TABLE 1

PRELUDE - SORGHUM: Broadcast Rates Per Acre

| Soil Type | PRELUDE Rate | Note  |
|-----------|--------------|---|
| Coarse    | 4 qts        | Apply not more than 2 weeks prior to planting<br>Apply within 30 days prior to planting |
| Medium    | 4.5 qts      |   |
| Fine      | 5 qts        |   |

## LIMITATIONS AND PRECAUTIONS:

Under high moisture conditions prior to sorghum emergence, injury may occur. The crop will normally outgrow this effect.

Do not use PRELUDE for crops grown under dry mulch tillage or injury may occur.

## Tank Mix with AATREX:

Broadcast the recommended rates of PRELUDE and AATREX from Table 2 as a ground spray before, during, or after planting but before crop emergence. Apply in 20-60 gals. of diluted spray per acre. Add Spreader (nonionic) at 16-32 fl. oz. per 100 gals. diluted spray per acre. Water or nitrogen solutions may be used as carrier. Add AATREX to spray tank first, mixing thoroughly with carrier. Then add PRELUDE and Spreader (nonionic). Constant agitation is recommended limitations, cautions and for a list of weeds controlled by pre-emergence activity of AATREX.

TABLE 2

| PRELUDE plus AATREX - Sorghum Broadcast Rates Per Acre |              |                    |
|--|--------------|--------------------|
| Soil Type  | PRELUDE Rate | AATREX (lbs ai/Ac) |
| Coarse   | 9 pts        | 1.5-1.8            |
| Medium   | 9 pts        | 1.5-1.8            |
| Fine<br>Less than 1.5% Organic Matter                  | 10 pts       | 1.8-2.0            |

LIMITATIONS AND PRECAUTIONS: Do not use on medium soils with less than 1.5% organic matter.

Use within 30 days prior to planting.

Under high moisture conditions prior to sorghum emergence, injury may occur. The crop will normally outgrow their effect.

Do not use PRELUDE for crops grown under dry mulch tillage or injury may occur.

This tank mix will not control volunteer sorghum or shattercane which emerges after application.

SOYBEANS: PRELUDE USED ALONE: Apply PRELUDE at rates recommended in Table 3, below preplant or preemergence to the crop as a ground-applied broadcast spray. Apply in 20 to 60 gallons of diluted spray per acre. Add a nonionic surfactant at 16 fl. oz. per 100 gallons of spray mixture.

TABLE 3

| PRELUDE Broadcast Rates Per Acre |                                    |                              |
|----------------------------------|------------------------------------|------------------------------|
| Soil Texture                     | .5% to less than 3% Organic Matter | 3% Organic Matter Or Greater |
| Coarse                           | 6- 8 pints                         | 8 pints                      |
| Medium                           | 8-10 pints                         | 8-10 pints                   |
| Fine                             | 8-10 pints                         | 10-12 pints                  |
| Muck or Peat                     | Do Not Use                         | Do Not Use                   |

MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS:

Apply 2/3 the recommended rate of PRELUDE from Table 3 above as a split treatment 30-46 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 8 pints/Ac on coarse soils not more than 2 weeks prior to planting.

Tank Mix with SENCOR or LEXONE: Broadcast the recommended rates of PRELUDE and SENCOR or LEXONE from Table 4 as a ground spray before, during, or after planting but before crop emergence. Apply in 20-60 gals. of diluted spray per acre. Add Spreader (nonionic) at 16 fl. oz. per 100 gals. of diluted spray.

Add SENCOR or LEXONE to the spray tank first, mixing thoroughly in carrier. Then add PRELUDE and Spreader (nonionic). Constant agitation is recommended at all times. Refer to SENCOR or LEXONE labels for rates of application, directions, limitations, cautions, and for a list of weeds controlled by pre-emergence activity of those products.

TABLE 4

| PRELUDE plus SENCOR or LEXONE - Soybeans Broadcast Spray Rates Per Acre |          |   |                             |  |
|---|----------|---|-----------------------------|--|
| Soil Type   | PRELUDE  | + | LEXONE or SENCOR (lb ai/Ac) | Note   |
| Coarse  | 6 pts    |   | .25-.375                    | Loamy sand with greater than 2% OM <u>only</u> . |
| Medium  | 8 pts    |   | .375-.5                     |  |
| Fine  | 8-10 pts |   | .5                          |  |

LIMITATIONS AND PRECAUTIONS: To avoid crop injury, DO NOT USE on soils of less than 0.5% O.M., on alkaline soils with a pH of over 7.4, or on all sands and on loamy sands of less than 2% O.M.

If heavy rains occur soon after applications, crop injury may occur, especially in poorly drained areas where water stands for several days or where the seeding slit has not been properly closed.

Tank Mix with LOROX:

Broadcast the recommended rates of PRELUDE and LOROX from Table 5 as a ground spray before, during, or after planting but before crop emergence. Apply in 20-60 gals. of diluted spray per acre. Add Spreader (nonionic) at 16 fl. oz. per 100 gals. of diluted spray. Add LOROX to tank first, mixing thoroughly in water. Then add PRELUDE and Spreader (nonionic). Constant agitation is recommended at all times. Refer to LOROX label for rates of application, directions, limitations, cautions, and for a list of weeds controlled by preemergence activities of LOROX.

TABLE 5

| PRELUDE plus LOROX - Soybeans Broadcast Rates per Acre. |          |   |                  |   |
|---|----------|---|------------------|---|
| Soil Type   | PRELUDE  | + | LOROX (lb ai/Ac) | Note  |
| Coarse  | 6 pts    |   | .5- .75          | Use on loamy sands in N.E. U.S. with O.M. greater than 1% <u>only</u> |
| Medium  | 8 pts    |   | .5-1.0           |   |
| Fine  | 8-10 pts |   | 1.0-1.5          |   |



LIMITATIONS AND PRECAUTIONS: Do not use on sands, gravelly soils, or exposed subsoils or injury may occur.

DO NOT use on soils with less than 0.5% O.M. or injury may occur.

ONLY water should be used as a carrier with this tank mix.

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## WORKER SAFETY RULES/ REENTRY STATEMENTS

USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT get on skin, eyes or clothing.

DO NOT inhale spray mist.

WASH SPLASHES from skin and eyes immediately.

REMOVE and wash contaminated clothing.

WASH before eating, smoking and drinking.

WEAR full face shield, rubber gloves and apron and waterproof footwear when pouring concentrate or when exposure to concentrate is possible.

WEAR waterproof footwear and protective clothing when spraying outside of an enclosed cab or aircraft or when contacting vegetation wet with spray.

DO NOT enter treated areas without protective clothing until sprays have dried.

AVOID working in spray mist. If there is risk of exposure, wear goggles and approved face mask capable of filtering spray droplets.

KEEP all unprotected persons out of operating areas or vicinity where there may be danger of drift.

Certain states may require more restrictive reentry intervals; consult your State Department of Agriculture for further information. Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

**IMPORTANT:** The effect of swallowing paraquat is far more severe than that which usually results from skin contact or inhalation of spray mist. No opportunity for mist or product to cause serious injury or death should arise when used in strict compliance with these rules but the opportunity may arise in case of gross violations so strictly follow all these rules as if your life depends on it.

## ENVIRONMENTAL SAFETY CAUTIONS

### WILDLIFE

This product is toxic to wildlife. Birds and other wildlife areas may be killed. Do not apply directly to water.

### DRIFT

**PRELUDE** Herbicide is a contact herbicide to green plant tissue. Do not apply under conditions involving drift to food, forage, or other plantings that might be or the crops thereof rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift to untreated areas. For aerial applicators use, do not apply during thermal inversion to avoid drift.

### CHEMICAL HAZARD

This product reacts with aluminum to produce hydrogen gas which may form a highly combustible gas mixture. Such gas may ignite or explode, causing serious personal injury, if ignited by flame, spark, welder's torch, lighted cigarette, or other source. Do not mix or store in containers, spray tanks, or such systems made of aluminum or having aluminum fittings. After dilution with water to spray concentration, aluminum systems made of, or containing aluminum parts, may be used for extended (overnight) storage.

### EQUIPMENT/CONTAINERS

Flush all spray equipment with water after use. This product is corrosive to aluminum. Aluminum spray equipment and aluminum aircraft structures are exposed to spray solution or spray drift should be flushed thoroughly with water immediately after use.

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### STORAGE AND DISPOSAL

#### PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

#### STORAGE

Store at temperatures above 32°F. Do not contaminate feed, foodstuffs or drinking water. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs or feeds. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC 800/424-9300.

#### PESTICIDE DISPOSAL

This product is 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

See Container Label For Container Disposal Directions.

CONDITIONS OF SALE: 1. ICI Americas Inc. (ICIA) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. ICIA neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond ICIA's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by ICIA under 1 above) resulting from handling, storage and use of this material.