

GROUP 1 HERBICIDE

# FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA

# **SUSPENSION**

This component must only be used in the Baseline Herbicide Tank-Mix.

**AGRICULTURAL** 

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 28536 PEST CONTROL PRODUCTS ACT

**CAUTION: SKIN AND EYE IRRITANT** 

NET CONTENTS: 8 L, 80 L, bulk

**Dow AgroSciences Canada Inc.** Suite 2100, 450 - 1 Street S.W. Calgary, Alberta T2P 5H1 1-800-667-3852

<sup>\*</sup>Trademark of Dow AgroSciences LLC

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# **PRECAUTIONS**

# KEEP OUT OF REACH OF CHILDREN.

# DO NOT APPLY BY AIR

Harmful if swallowed. May cause skin and eye irritation. DO NOT ingest. DO NOT get on skin, clothing, or in eyes. Do not smoke, eat, or drink while using this product. Do not contaminate food, water supplies or animal feed.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

# PROTECTIVE CLOTHING AND EQUIPMENT

Workers must wear coveralls over long-sleeved shirt, long pants, chemical resistant gloves, boots and safety goggles when mixing, loading and during clean up or when adjusting or repairing sprayer.

Applicators must wear long-sleeved shirt and long pants.

# **OPERATOR USE PRECAUTIONS**

Do not wear contact lenses when using chemicals. Wash gloves thoroughly with water before removing them during any operation. Wash hands thoroughly with soap and water after using the product and before eating, drinking or smoking.

For all uses, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

#### **FIRST AID**

IN CASE OF POISONING, contact a physician or a poison control centre IMMEDIATELY. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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 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 further 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.

#### TOXICOLOGICAL INFORMATION

Treat symptomatically for ingestion and/or skin and eye contact. Symptoms are likely to be those of CNS depression. Avoid respiratory depressants unless otherwise indicated.

#### AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs or clothing.

# **ENVIRONMENTAL HAZARDS**

**TOXIC** to non target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas to aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil or clay. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. Avoid application when heavy rain is forecast.

#### **STORAGE**

Store in a cool, dry place, away from children, animals, food, feed or fertilizers. Keep unused product in resealed original container. Store above –5°C. Shake well before use.

#### **SPILL CLEAN-UP**

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean-up the spill.

- 1. Spread a suitable absorbent (clay, soil, kitty litter, etc.) on the liquid.
- 2. Place sweepings in an open drum.
- 3. Generously cover the contaminated area with a common household detergent. Using a stiff brush, work the detergent into the spill material using sufficient water to form a slurry. Brush the slurry into cracks and crevices, and allow to stand for 10 minutes.
- 4. Spread a suitable absorbent on the slurried liquid and shovel the absorbed material into an open drum.
- 5. Repeat if necessary.
- 6. Flush area with water while observing proper environmental precautions.
- 7. Seal drum and dispose of contaminated material in accordance with municipal or provincial recommendations. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

#### **DISPOSAL**

# **Recyclable Containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

# **Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**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.



# Herbicide Tank-Mix

GROUP	1	HERBICIDE
GROUP	4	HEBBICIDE
		HERBICIDE

FOR SALE FOR USE ONLY IN THE PRAIRIE PROVINCES AND PEACE RIVER REGION OF BRITISH COLUMBIA

FOR POST EMERGENT CONTROL OF WILD OATS, GREEN FOXTAIL, AND ANNUAL BROADLEAF WEEDS IN SPRING WHEAT, DURUM WHEAT, AND SPRING BARLEY (NOT UNDERSEEDED WITH LEGUMES)

#### **AGRICULTURAL**

# READ THE LABEL AND BOOKLET BEFORE USING KEEP OUT OF REACH OF CHILDREN

This co-package contains:

BASELINE A HERBICIDE

REGISTRATION NO. 28536 PEST CONTROL PRODUCTS ACT

GUARANTEE: tralkoxydim......400 g/L

(contains 1,2-benzisothiazolin-3-one at 0.025% as a preservative)

BASELINE B HERBICIDE

REGISTRATION NO. 28537 PEST CONTROL PRODUCTS ACT

GUARANTEE: Fluroxypyr......180 g/L

(present as 1-methylheptylester)

**BASELINE ADJUVANT** 

REGISTRATION NO. 28535 PEST CONTROL PRODUCTS ACT

GUARANTEE: mineral oil......50.0%

surfactant blend.....39.5%



WARNING - EYE IRRITANT CAUTION - SKIN IRRITANT

NET CONTENTS: Baseline A Herbicide 8 L, 80 L, bulk

Baseline B Herbicide 9.6 L, 96 L, bulk 8 L, 80 L, bulk

Dow AgroSciences Canada Inc. Suite 2100, 450 - 1 Street S.W. Calgary, Alberta T2P 5H1 1-800-667-3852

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PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN
WARNING - EYE IRRITANT
CAUTION - SKIN IRRITANT
DANGER - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN
MAY CAUSE SKIN AND EYE IRRITATION
DO NOT APPLY BY AIR

DO NOT get in eyes, on skin or clothing. Avoid breathing spray mist. Do not eat, drink, smoke or use toilet while using this product.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

# PROTECTIVE CLOTHING AND EQUIPMENT

At all times: Wear clean, body-covering coveralls.

Workers must wear coveralls over long-sleeved shirt, long pants, chemical resistant gloves, boots and safety goggles when mixing, loading and during clean up or when adjusting or repairing sprayer.

Wash gloves thoroughly with water before removing them during any operation.

Applicators must wear long-sleeved shirt and long pants.

# **OPERATOR USE PRECAUTIONS**

Wear freshly laundered clothing and clean protective equipment daily. Do not wear contact lenses when using chemicals. At completion of spraying or end of the day take a shower immediately. Wash hands thoroughly with soap and water after using this product and before eating, drinking, smoking or using the toilet. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse. If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

For all uses, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

# PHYSICAL OR CHEMICAL HAZARDS

**COMBUSTIBLE.** Keep product away from fire, open flame, lighted electric bulbs and other sources of heat. Do not allow water to be introduced to contents of this container.

#### **FIRST AID**

IN CASE OF POISONING, contact a physician or a poison control centre IMMEDIATELY. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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 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 further 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.

# **TOXICOLOGICAL INFORMATION**

This product contains petroleum distillates and materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage. Treat symptomatically. Treat symptomatically for skin and eye irritation.

# **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

# **ENVIRONMENTAL HAZARDS**

**TOXIC** to non target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas to aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil or clay. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body. Avoid application when heavy rain is forecast.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.

#### **STORAGE**

Store in original containers in a secure dry heated place, away from children and animals. If product is frozen, bring to room temperature and agitate before use. Do not allow water to be introduced to the contents of this container. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If container is damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

#### **SPILL CLEAN-UP**

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean-up the spill.

- 1. Spread a suitable absorbent (clay, soil, kitty litter, etc.) on the liquid.
- 2. Place sweepings in an open drum.
- 3. Generously cover the contaminated area with a common household detergent. Using a stiff brush, work the detergent into the spill material using sufficient water to form a slurry. Brush the slurry into cracks and crevices, and allow to stand for 10 minutes.
- 4. Spread a suitable absorbent on the slurried liquid and shovel the absorbed material into an open drum.
- 5. Repeat if necessary.
- 6. Flush area with water while observing proper environmental precautions.
- 7. Seal drum and dispose of contaminated material in accordance with municipal or provincial recommendations. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

# **DISPOSAL**

# **Recyclable Containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

# **Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### **GENERAL INFORMATION**

Baseline Herbicide Tank-Mix is a post emergent herbicide for the control of annual broadleaved weeds including wild oats and green foxtail in spring wheat, durum wheat and spring barley (not underseeded with legumes). Baseline Herbicide Tank-Mix is mixed with water and applied as a uniform broadcast spray.

#### MODE OF ACTION

Baseline Herbicide Tank-Mix is a systemic auxin-type herbicide and moves within the plant for control of exposed and underground plant tissues. The product controls weeds by disrupting normal plant growth patterns. Symptoms of weeds include epinasty (twisting of the stems) and swollen nodes.

#### **GENERAL USE PRECAUTIONS**

#### **Sensitive Plants**

Do not apply Baseline Herbicide Tank-Mix directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

# **Non-Target Sites**

Do not apply where proximity of susceptible crops or other desirable plants is likely to result in exposure to spray or spray drift.

#### **Crop Rotation**

Fields previously treated with Baseline Herbicide Tank-Mix can be seeded the following year to barley, canola, flax, forage grasses, lentils, mustard, oats, peas, rye or wheat or fields can be summerfallowed.

# **Pre-Harvest Grazing Intervals**

Immature cereal crops may be grazed or cut for hay 16 days after treatment. Grain may be harvested 60 days after treatment. Mature straw may be fed to livestock. Do not feed or graze underseeded forage crops in the year of treatment.

#### **Tank Mixtures**

Do not apply this product with any other additive, pesticide or fertilizer except as specifically recommended on this label. When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

#### **Spray Equipment Precaution**

Do not apply through any type of irrigation system.

# To Reduce Spray Drift:

Use nozzles delivering higher volumes and coarser droplets.

Use low pressures (275 kPa).

Use 100 L/ha of spray solution.

Spray when the wind velocity is 15 km/hr or less.

Spot treatments should only be applied with a calibrated boom to prevent over-application.

# To Reduce Runoff from Treated Areas:

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

# **Equipment Clean-Up**

Equipment used to apply Baseline Herbicide Tank-Mix should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Baseline Herbicide Tank-Mix dealer for detailed equipment cleaning procedures.

# **DIRECTIONS FOR USE**

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDED WITH LEGUMES.

Only one application per season is permitted.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

# **Application Directions**

Apply Baseline Herbicide Tank-Mix to actively growing weeds, and to actively growing wheat and barley (from the 2-leaf crop growth stage up to and including initiation of stem elongation) for best results. Weeds emerging after application of Baseline Herbicide Tank-Mix will not be controlled.

For control of listed weeds, apply a uniform spray containing 0.5 L/ha of Baseline A Herbicide and 0.6L/ha of Baseline B Herbicide in 100 L of water per hectare to thoroughly cover the weeds. Baseline Adjuvant must also be added at a rate of 0.5 L per 100 L of water. Only weeds emerged at the time of treatment will be controlled. Best results are obtained from applications made to seedling weeds.

Tillered cereal crops may incur injury if applications are made within 48 hours of freezing temperatures. Non-tillering cereal crops which are exposed to temperatures of 4°C or less up to 48 hours before or after application may incur injury. Use of this tank-mix under adverse conditions may increase severity of crop injury; crops under stress from foliar diseases or low fertility are more susceptible to injury.

# **Crops Registered**

spring wheat durum wheat spring barley

# **Weeds Controlled**

Barnyardgrass (1-4 leaf)
Cleavers (1-4 whorls)
Green Foxtail (1-5 leaf)
Kochia\* (2-8 leaf)
Persian Darnel (1-4 leaf)
Volunteer Flax (1-12cm)
Volunteer Oats (1-6 leaf)
Wild Oats (1-6 leaf)
Yellow Foxtail (1-5 leaf)

\*Including biotypes resistant to Group 2 herbicides that inhibit the ALS/AHS enzyme.

# **Weeds Suppressed**

Stork's Bill (1-8 leaf)

# **Mixing Instructions**

- 1. Only use sprayers in good running condition with high agitation. Ensure the sprayer and pre-mix tank is cleaned according to instructions on the label of the product used prior to Baseline Herbicide Tank-Mix. Use only clean water for the spray solution. Ensure that all in-line strainer and nozzle screens in the sprayer are 50 mesh or coarser. Screens of 80 mesh size or finer should not be used.
- 2. Begin to fill sprayer tank with clean water, and engage agitator. **Agitation must be continued** throughout the entire mixing and spraying procedure.
- 3. When the sprayer is three quarters full of water, add Baseline A Herbicide. If more than one container of Baseline A Herbicide is to be used, add all Baseline A Herbicide containers prior to adding Baseline B Herbicide.
- 4. Add Baseline B Herbicide next. If more than one container of Baseline B Herbicide is to be used, add all Baseline B Herbicide containers prior to adding Baseline Adjuvant.
- 5. Lastly, add the required amount of Baseline Adjuvant and then continue to fill tank to desired level with water
- 6. The herbicidal activity of Baseline Herbicide Tank-Mix can be negatively affected in water containing high concentrations (>400 ppm) of bicarbonate ions is used as a diluent. Water from deep wells is more likely to contain high concentrations of bicarbonate ions. Ammonium sulfate at 9 to 18 kg per 1000 L of spray solution can be used to counteract this antagonistic effect. Use only granular or liquid ammonium sulfate formulations which do not contain additional wetters or surfactants.

#### TANK-MIX COMBINATIONS WITH BASELINE HERBICIDE TANK-MIX

Baseline Herbicide Tank-Mix can be mixed with other herbicides to customize weed control to the field you are treating. To control additional broadleaved weeds, tank-mix Baseline Herbicide Tank-Mix with up to 560 g ae/ha of either 2,4-D Ester or MCPA Ester (equivalent to 1.0 L/ha of 2,4-D LV600 or 1.12 L/ha of MCPA LV500) or 1.5 to 2.0 L/ha Curtail\* M Herbicide. Refer to tank-mix partner labels for rates and weeds controlled, and for more restrictions, information on precautions, and additional directions for use.

# **GROUND SPRAYING INSTRUCTIONS:**

- 1. Apply in a spray volume of 100 L/ha at a pressure of 275 kPa to ensure proper dispersion, spraying characteristics and performance of Baseline Herbicide Tank-Mix.
- 2. Flat fan nozzles of 80° or 110° are recommended for optimum coverage. Do not use floodjet nozzles or controlled droplet application equipment. Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50 mesh or coarser. Screens of 80 mesh or finer should not be used.
- 3. Always ensure that agitation is continued until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying. Do not begin spraying until fully re-suspended. Baseline Herbicide Tank-Mix must be sprayed within the same day of mixing.
- 4. When spraying is completed and prior to using other products, ensure the sprayer tank is thoroughly rinsed with clean water to remove any remaining Baseline Herbicide Tank-Mix residues. Using a pressure washer and the addition of a detergent to the rinse water will enhance removal of residues.

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

# **BUFFER ZONES**

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands).

Method of Application	Buffer Zones (metres) Required for Protection of:	
Wethou of Application	Terrestrial Habitat	
Field Sprayer*	<u>15</u>	

<sup>\*</sup> For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most-restrictive) buffer zone of the products involved in the tank mixture.

# RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Baseline Herbicide Tank-Mix is both a Group 1 and a Group 4 herbicide. Any weed population may contain plants naturally resistant to Group 1 and/or Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Baseline Herbicide Tank-Mix or other Group 1 and 4 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca.

**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.

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