2020-06-12 Sub.No.2020-1059

#### **Container Label**

GROUP 2 HERBICIDE

## **EXPRESS® DF HERBICIDE 75%**

#### WETTABLE GRANULES

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA FOR AGRICULTURAL USE ON: WHEAT (SPRING AND DURUM), BARLEY, AND SUMMERFALLOW ONLY

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Tribenuron Methyl 75%

REGISTRATION NO: 29167 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 10 GRAMS-4 KG

WARNING-EYE IRRITANT POTENTIAL SKIN SENSITIZER

Warning, contains the allergens milk and sulfites.

FMC of Canada Limited 6755 Mississauga Road, Suite 204 Mississauga, ON L5N 7Y2 1-833-362-7722

#### PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- WARNING EYE IRRITANT.
- POTENTIAL SKIN SENSITIZER.
- MAY CAUSE SKIN IRRITATION
- DO NOT APPLY BY AIR.
- May be harmful if swallowed, inhaled or absorbed through skin.
- Avoid breathing spray mist or vapours. Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.
- Do not contaminate any body of water.
- Wear suitable chemical resistant gloves and goggles or face shield during mixing and loading
- May irritate skin and eyes. When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use.
- Store and wash contaminated clothing separately from household laundry before reuse.
- DO NOT enter or allow worker entry into treated areas for 12 hours following application.

## FIRST AID:

#### 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 center or doctor for treatment advice.

#### IF ON SKIN OR CLOTHING:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for treatment advice.

#### IF SWALLOWED:

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 do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### 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 center or doctor for further treatment advice

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

For medical emergencies call **1-800-331-3148** (24 hours).

#### **TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, seed, food or feed. Not for use or storage in or around the home. Keep container tightly closed.

#### DISPOSAL:

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 rinsing 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.

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 any way that is inconsistent with the directions on the label.

## IN CASE OF EMERGENCY, CALL 1-800-331-3148 (24 HOURS)

EXPRESS<sup>®</sup> is a trademark of FMC Corporation or an affiliate.

\* All other products mentioned are trademarks of their respective companies.

**DFU Booklet** 

**Container Label** 

GROUP 2 HERBICIDE

## **EXPRESS<sup>®</sup> DF HERBICIDE 75%**

#### WETTABLES GRANULES

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- May be harmful if swallowed, inhaled or absorbed through skin.
- Avoid breathing spray mist or vapours. Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.
- Do not contaminate any body of water.
- Wear suitable chemical resistant gloves and goggles or face shield during mixing and loading.
- May irritate skin and eyes. When using, do not eat, drink or smoke. Wash skin thoroughly with soap and water after handling.
- Remove contaminated clothing immediately after use.
- Store and wash contaminated clothing separately from household laundry before reuse.
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For medical emergencies call 1-800-331-3148 (24 hours).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### IMPORTANT

Injury to or loss of desirable trees, shrubs, flowers, vegetables, fruits or other vegetation may result from failure to observe the following:

Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on crops.

DO NOT APPLY BY AIR.

Do not apply in high wind or on hot days (over 27 °C).

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, durum, barley and summerfallow. Thoroughly clean all traces of tank mix from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Wash away any spray mixture from the outside of spray tank, nozzle or spray rig.

A MINIMUM RECROPPING INTERVAL OF 2 MONTHS SHOULD BE LEFT BETWEEN THE APPLICATION OF THIS PRODUCT AND SEEDING OF THE NEXT CROP. After 2 months, the following crops can be seeded: canola, flax, lentils, alfalfa.

DO NOT APPLY EXPRESS® DF HERBICIDE 75% WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

#### **GENERAL INFORMATION**

#### **ENVIRONMENTAL HAZARDS:**

**TOXIC** to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

#### DIRECTIONS FOR USE:

Express® DF Herbicide 75% provides control of certain broad-leaved weeds in spring planted wheat (including durum), barley and summerfallow.

Warm, moist growing conditions promote active weed growth and enhance the activity of Express® DF Herbicide 75% by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. Express® DF Herbicide 75% may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

Express® DF Herbicide 75% rapidly stops growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed

sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

<u>Field sprayer application:</u> **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 (grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

	Сгор	Buffer Zones (meters) Required for the Protection of:		
Method of Application		Aquatic Habitat of Depths:		Terrestrial Habitat
		Less than 1	Greate	
		m	than 1 r	n
Field sprayer*	summerfallow, fields to be planted to wheat (spring, and durum), barley (only as a pre-seeding herbicide)	0	0	3
	Wheat and barley	1	0	4

\* 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.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

## FOR WEED CONTROL IN SPRING WHEAT (INCLUDING DURUM) AND BARLEY

EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX:

Apply EXPRESS® DF HERBICIDE 75% at 10 grams per hectare with 2,4-D Ester (660 g/L) at 0.625 litres per hectare. Do not exceed 275 kPa sprav pressure.

#### WEEDS CONTROLLED BY EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX:

Annual sunflower Ball mustard	Redroot pigweed Russian pigweed
Canada thistle (top growth control)	Russian thistle
Cow cockle	Shepherd's-purse (fall rosettes and spring seedlings)
Flixweed (fall rosettes and spring seedlings)	Stinkweed (fall rosettes and spring seedlings)
Hare's-ear mustard	Sweet clover
Indian mustard	Thyme-leaved spurge
Kochia (2-10 leaf)	Tumble mustard
Lamb's-quarters	Wild mustard
Narrow-leaved hawk's-beard (fall rosettes and spring seedlings)	Wild radish
Prickly lettuce	Wormseed mustard

## WEEDS SUPPRESSED BY EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX<sup>†</sup>:

Wild buckwheat

<sup>†</sup> Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

#### WHEN TO APPLY:

Apply the tank mix from the full 3-leaf stage to just before the flag leaf (shot blade) stage of wheat (including durum) and barley, prior to head emergence. Do not apply after head has emerged.

For best results apply to young, emerged actively growing weeds that are less than 10 cm tall or across, and before the crop canopy closes. Weeds that emerge after treatment will not be controlled.

For wild buckwheat, apply to ACTIVELY GROWING wild buckwheat in the 1 to 3-leaf stage. Under dry conditions, suppression may be reduced. Plants larger than the 3-leaf stage may regrow after treatment.

#### NOTE:

If rain occurs soon after application control may be reduced. At least 4-6 hours of dry weather is needed to allow the tank mix to be absorbed by weed foliage. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

#### EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER + ASSERT\* TANK MIX

For control of WILD OATS and control or suppression of broadleaf weeds in spring (including durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
EXPRESS® DF HERBICIDE 75%	10 g/ha
ASSERT* HERBICIDE	1.3 to 1.6 L/ha
2,4-D Ester (660 g/L)	0.6 L/ha

Use the low rate of ASSERT\* HERBICIDE when the majority of wild oats are in the 1 to 3-leaf stage and the higher rate if wild oats are in the 4-leaf stage. Apply when the crop is in the full 3-leaf stage.

#### EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER + PUMA\*<sup>120</sup> SUPER TANK MIX

For control of GREEN FOXTAIL (WILD MILLET) and control or suppression of broadleaf weeds in spring (including durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
EXPRESS® DF HERBICIDE 75%	10 g/ha
PUMA*120 SUPER	385 mL/ha
2,4-D Ester (660 g/L)	0.6 L/ha

Apply this tank mix from the full 3-leaf stage to the 6-leaf + 3 tiller stage of wheat (including durum) and the full 3-leaf stage to the 5-leaf + 2 tiller stage of barley.

For green foxtail control, apply at the 1-6 leaf stage (up to emergence of the 3<sup>rd</sup> tiller).

#### FOR WEED CONTROL IN SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

#### EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER + BANVEL\* or BANVEL\* II TANK MIX

For control of sulfonylurea resistant KOCHIA and control or suppression of broadleaf weeds on the EXPRESS® DF HERBICIDE 75% label in spring (excluding durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
EXPRESS® DF HERBICIDE 75%	10 g/ha
BANVEL* or BANVEL* II	110 mL/ha
2,4-D Ester (660 g/L)	0.6 L/ha (or 420 g/ha acid equivalent)

Apply the tank mix from the full 3-leaf stage to the 6-leaf + 3 tiller stage of wheat (excluding durum) and barley and to kochia plants that are 2.5 – 10 cm in height. Expect superior results when kochia is small.

#### FOR WEED CONTROL IN SPRING WHEAT (EXCLUDING DURUM) ONLY

TANK MIX PARTNER	RATE		
EXPRESS® DF HERBICIDE 75%	10 g/ha		
Everest* 70 WDG Herbicide	28.5 <b>or</b> 43 g/ha for wild oats and green foxtail <b>Or</b> 21.5 g/ha for green foxtail only		
Banvel* or Banvel* II Herbicide	110 mL/ha		
2,4-D Ester (660 g/L)	0.6 L/ha (or 420 g/ha acid equivalent)		
Apply to spring wheat in the 3 to 4 leaf stage, plus 2 tillers. Wild oats should be no larger than 4-leaf, + 2 tillers. Green foxtail should be no larger than 4-leaf + 2 tillers. Use the 28.5 gram/Ha rate for wild oats when the population is less than 100/square meter. Use 43 grams /Ha when wild oat population is greater than 100/square meter, or when plants are not actively growing due to poor environmental conditions. Consult the Everest* 70 WDG Herbicide label for additional information on appropriate weed staging, application instructions, recropping restrictions and environmental and use precautions. Weeds Controlled			
Weeds controlled or suppressed by EXPRESS® DF HERBICIDE 75% + 2,4-D			
ESTER TANK MIX, plus			

Green Foxtail

Wild Oats

Kochia (including Group II resistant biotypes)

# CONTROL OF FLIXWEED AND STINKWEED (FALL ROSETTES AND SPRING SEEDLINGS) IN SUMMERFALLOW

Apply EXPRESS® DF Herbicide 75% at 10 grams per hectare with 2,4-D ester at 0.63 litres per hectare.

Apply the tank mix in the spring after emergence, up to the early flowering stage of the target weeds. Only weeds that have emerged at the time of application will be controlled.

#### **MIXING INSTRUCTIONS:**

- 1. Add one-third of the necessary volume of water to the spray tank.
- 2. With the agitator running, add the required amount of EXPRESS® DF Herbicide 75%
- 3. When EXPRESS® DF Herbicide 75% is in suspension, add the required amount of the appropriate tank mix partners.
- 4. Specific Tank Mix Instructions:

EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX + ASSERT\*: once EXPRESS® DF HERBICIDE 75% is completely in suspension, add the required amount of Spray Water pH Adjuster and agitate until dissolved. Add the required amount of Assert\* while maintaining agitation. Add 2,4-D Ester. Addition of a surfactant is not required.

EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX + BANVEL\* or BANVEL\* II: add 2,4-D Ester last. A surfactant is not required with this mixture.

EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX + PUMA\*120 SUPER: add the required amount of PUMA\*120 SUPER last. A surfactant is not required with this mixture.

- 5. Add the rest of the water. If an antifoam agent is required, add this last.
- 6. Use a minimum spray volume of 55 L/ha.
- For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume or less before proceeding with step 1. If this is not possible, pre-slurry EXPRESS® DF HERBICIDE 75% in a small amount (5-10 L) of water before adding to the tank. The 2,4-D Ester component does not need to be premixed.

Continuous agitation is required to keep the EXPRESS® DF HERBICIDE 75% in suspension. If the spray preparation is left standing without agitation, thoroughly agitate to resuspend the mixture before spraying. Use spray preparation of EXPRESS® DF HERBICIDE 75% within 24 hours or product degradation may occur.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact FMC of Canada Ltd. at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by FMC of Canada Ltd.

#### MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES:

A minimum recrop interval of 2 months should be left between the application of this product and seeding of the next crop. The following crops can be seeded two months after application of EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX: canola, flax, lentils, and alfalfa.

#### **EQUIPMENT-SPRAY VOLUMES:**

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon).

Continuous agitation is required to keep EXPRESS® DF HERBICIDE 75% in suspension. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles. Do not apply with more than 275 kPa spray pressure. DO NOT APPLY BY AIR.

#### **SPRAYER CLEANUP:**

It is difficult to remove all traces of 2,4-D Ester from a sprayer. The following clean-out procedure will remove traces of EXPRESS® DF HERBICIDE 75% from the sprayer.

- 1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes to remove all visible residues.
- Fill the tank with clean water then add 1 litre household AMMONIA (containing a minimum of 3% ammonia) per 100 litres of water. Fill boom and hoses with solution and allow sprayer to sit for 15 minutes. Drain.
- 3. Repeat step 2.
- 4. Nozzles and screens should be removed and cleaned separately. To remove traces of ammonia, rinse the tank, hoses and booms thoroughly with clean water.
- 5. Dispose of tank rinseate according to Provincial directions.

#### CAUTION:

Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour, which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

#### **USE PRECAUTIONS:**

Licensed wheat and barley varieties have shown acceptable tolerance to EXPRESS® DF HERBICIDE 75%. Consult FMC of Canada Ltd. prior to use on unlicensed varieties for crop tolerance information.

- Do not apply to irrigated land where tail water will be used to irrigate other crop land.
- Do not contaminate irrigation water.
- Use a maximum of 10 grams of EXPRESS® DF HERBICIDE 75% per hectare per year on spring planted wheat, barley and summerfallow.
- Do not use on highly variable soils that have large gravely or sandy areas, eroded knolls or calcium deposits.
- EXPRESS® DF HERBICIDE 75% applied to spring wheat, durum wheat, barley and summerfallow that is stressed by severe conditions such as drought, low fertility, saline soils, waterlogged soils

(soils at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury, grade or yield loss.

- Do not apply EXPRESS® DF HERBICIDE 75% to spring wheat, durum wheat or barley under sown with legumes or grasses as injury to the forage may result.
- Do not remove soil from treated fields for use on lawns, in gardens or for backfill.
- Under certain conditions such as prolonged cool weather temperature or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

OVERSPRAY OR DRIFT TO IMPORTANT WILDLIFE HABITATS SUCH AS SHELTERBELTS, WETLANDS, SLOUGHS OR DRY SLOUGH BORDERS, OR WOODLOTS, SHOULD BE AVOIDED. LEAVE A 15 METER BUFFER ZONE BETWEEN THE LAST SPRAY SWATH AND THE EDGE OF ANY OF THESE HABITATS.

Control of weeds growing in wheel tracks may be reduced if EXPRESS® DF HERBICIDE 75% is applied under dry, dusty conditions.

#### **RESISTANCE-MANAGEMENT RECOMMENDATIONS:**

For resistance management, EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX is both a Group # 2 and Group # 4 herbicide. Any weed population may contain or develop plants naturally resistant to EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX and other Group # 2 and/or Group # 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. 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 EXPRESS® DF HERBICIDE 75% + 2,4-D ESTER TANK MIX or other Group # 2 and/or Group # 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 your local FMC representative or the FMC hotline at 1-833-362-7722 for further information.

#### STORAGE:

Store products in original containers only, away from fertilizer, seeds, food or feed. Not for use or storage in or around the home. Keep container closed. Keep away from fire, heat, or open flame.

#### DISPOSAL:

#### For 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 rinsing 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.

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:

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EXPRESS<sup>®</sup> is a trademark of FMC Corporation or an affiliate.

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