(Sleeve)

GROUP 2 4 6 HERBICIDES

Oxbow™ Prime

Herbicide

Emulsifiable Concentrate

For use in Wheat and Barley

COMMERCIAL (AGRICULTURAL)

READ THE LABEL & BOOKLET BEFORE USING



EYE & SKIN IRRITANT POTENTIAL SKIN SENSITIZER

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: 35260
PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS:

Bromoxynil, present as mixed heptanoate and octanoate esters ... 170 g/L Dichlorprop-p, present as 2-ethylhexyl ester ... 425 g/L Florasulam ... 3 g/L

Nufarm Agriculture Inc. 5101, 333 - 96th Ave NE Calgary, Alberta T3K 0S3 1-800-868-5444

Net Contents: (1 - Bulk) Litres 24 Hour Emergency Response Number 1-800-424-9300

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

FATAL IF SWALLOWED.

MAY IRRITATE EYES AND SKIN. POTENTIAL SKIN SENSITIZER.

DO NOT apply by air. Ground application only.

Avoid contact with skin, eyes and clothing.

Store the container tightly closed away from seeds, feeds, fertilizer, plant and foodstuffs.

Wash concentrate from skin or eyes immediately.

Avoid working in spray mist. After use wash hands and other exposed skin.

Avoid contamination of ponds, streams, rivers and other water sources.

Avoid spray drift onto crops other than those recommended.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

After using this product, remove clothing and launder separately and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry. Wear freshly laundered clothing and clean protective equipment daily.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

DO NOT apply this product in a way that this product will contact workers or other persons, either directly or through drift.

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

ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms and non-target terrestrial plants.

Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

FIRST AID:

If swallowed, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If 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.

In on Skin/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.

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

TOXICOLOGICAL INFORMATION:

This product may cause mild irritation to the eyes. Treat symptomatically.

STORAGE:

Store this product away from food or feed.

Shake well before using.

Oxbow™ Prime formulation will solidify at temperatures below –20°C but will become useable at temperatures above 0°C. Shake well before using.

Insecticides and fungicides should be stored separately from herbicides so as to prevent the possibility of cross contamination.

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 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/territorial requirements.

For 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).

Disposal of unused, unwanted product

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

EMERGENCY TELEPHONE NUMBERS:

For spills or transportation accidents, Chemtrec, 1-800-424-9300. For health or environmental emergencies, ProPharma Group, 1-877-325-1840. For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

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.

Oxbow™ is a trademark of Nufarm Agriculture Inc.

(Booklet)

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NOTICE TO USER:

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DIRECTIONS FOR USE:

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

Oxbow™ Prime stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (twisting, discolouration) may not be noticeable for 1 to 2 weeks after application depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply by air.

Crop Rotation: Fields previously treated with Oxbow™ Prime Herbicide can be seeded the following year to barley, canola, chickpeas, corn, field beans, flax, Juncea canola,

lentils, mustard (brown, oriental and/or yellow), oats, peas, potatoes (except seed potatoes), soybeans, sunflower, wheat or fields can be summerfallowed.

Product Specific Precautions:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

Water Volume: Oxbow™ Prime should be applied in water volume rates of not less than 50 L/ha. For best results, a volume rate of 100 L/ha is recommended.

Spray Buffer Zones: Appropriate spray buffer zones should be established between treatment areas and aquatic systems and treatment areas and significant wildlife habitat.

GROUND SPRAYER:

Wash the tank and clean all filters, screens and tips. Use a 50-mesh (or coarser) filter screen. Select nozzle tips to apply the recommended volume per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of the weeds. Ensure that all tips are in good condition and spraying the same volume.

<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 S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

SPRAY BUFFER ZONES TO PROTECT SENSITIVE TERRESTRIAL AND AQUATIC HABITATS:

The spray buffer zones specified in the tables 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), and estuarine/marine habitats.

		Spray Buffer Zones (metres) Required for the Protection		
		of:		
Method of		Freshwater Habitat	Estuarine/Marine	Terrestrial
Application	Crop	of Depths	Habitats of Depths	Habitat

		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	Field crops (wheat and barley)	1	1	1	1	2

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When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Oxbow™ Prime is a Group 2, 4 and 6 herbicide. Any weed population may contain or develop plants naturally resistant to Oxbow™ Prime and other Group 2, 4 and 6 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 Oxbow™ Prime or other Group 2, 4 and 6
 herbicides within a growing season (sequence) or among growing seasons 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. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program
 that includes scouting, historical information related to herbicide use and crop
 rotation, and considers tillage (or other mechanical control methods), cultural
 (for example, higher crop seeding rates; precision fertilizer application method
 and timing to favour the crop and not the weeds), biological (weed-competitive
 crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible, by an alternative herbicide from a different group.

Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.

- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weedmanagement recommendations for specific crops and weed biotypes.
- For further information and to report suspected resistance, contact Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

USE PRECAUTIONS:

Avoid spray drift unto any desirable vegetation NOT listed on this label as damage may occur. Do not spray during periods of high temperatures when crops may be under stress or damage to the crop may occur. Warm, moist growing conditions promote active weed growth and enhance the activity of **Oxbow[™] Prime** by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled and re-growth may occur.

TIMING:

For best results, spray when weeds are actively growing and up to the 4 leaf stage unless otherwise listed below. Apply in good growing conditions. Application must be made before the crop shields the weeds.

MIXING:

Half fill the tank with clean water. Add the required amount of **Oxbow™ Prime** and agitate thoroughly. Fill the tank and agitate again before use.

If tank mixing Oxbow™ Prime with other labelled herbicides follow the WAMLEGS [Wettable powders/ flowable, Agitate Anti-flowing compounds/buffers, Microcapsule suspension, Liquid and soluble, Emulsifiable concentrates, High load Glyphosates, Surfactants] mixing order system:

- Add water soluble bags first.
- Followed by dry formulations, flowables, emulsifiable concentrates and then solutions.
- Prepare no more spray mixture than is required for the immediate spray operation.

WHEAT AND BARLEY:

(not under-seeded to legumes)

SPRAY VOLUME AND PRESSURE: For ground application, apply in 50 to 100 L of water per hectare at a pressure of 275 kPa.

TIMING: Spring and durum wheat and barley may be treated from the 3-leaf stage until before the flag leaf stage (Zadoks 13-37). Application before the 3-leaf stage or once the flag leaf is emerged may injure the crop. Do not apply more than one treatment per year.

Winter wheat may be treated in the spring from early tillering until prior to flag leaf stage. (Zadoks 21-36)

Apply to actively growing weeds up to the 4-leaf stage, unless otherwise specified in the Weeds Controlled and Suppressed table below.

PRE-HARVEST INTERVALS:

- Do not permit livestock to graze fields within 40 days after application.
- Do not harvest forage or cut for hay within 30 days after application.
- DO NOT harvest wheat or barley for grain within 60 days after application

RESTRICTED-ENTRY INTERVAL: **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

APPLICATION RATE: 1.25 L - 1.67 L/ha as a ground application. Use the low rate in fields with smaller weeds and low populations. Use the high rate when the field has heavy weed pressure and weeds are beyond optimum staging, or in poor growing conditions where the weeds may be hardened off

WEEDS CONTROLLED (C) & SUPPRESSED (S):

WEEDS CONTINUEED (C) & SON RESSED (S).				
Annual sow-thistle	С			
Bluebur	С			
Broadleaf plantain	С			
Canada thistle (top growth)	S at 1.67 L/ha			
Cleavers	С			
Cocklebur	С			
Common chickweed	С			
Common ragweed	С			
Cow cockle	С			
Green smartweed	С			
Hempnettle	S at 1.67 L/ha			
Kochia (up to 10 – 15 cm)	С			
Lady's thumb	С			
Lamb's quarters (up to 8 leaf)	С			
Narrow-leaved hawk's beard (up to 8 leaf)	S at 1.67 L/ha			
Pale smartweed	С			
Perennial sow-thistle	S at 1.67 L/ha			
Prickly lettuce	S at 1.25 L, C at 1.67 L/ha			

Redroot pigweed	С
Round-leaved mallow	С
Russian thistle (up to 12 leaf)	С
Shepherd's purse	С
Stinkweed (field pennycress) (up to 8 leaf)	С
Tartary buckwheat (up to 8 leaf)	С
Volunteer canola	С
Wild buckwheat (up to 8 leaf)	С
Wild mustard (up to 8 leaf)	С

TANK MIXTURES:

This product may be tank mixed with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before applying any tank mix that is not specifically recommended on this label.

Oxbow™ Prime + Everest® 3.0 AG Herbicide

(For use in Manitoba, Saskatchewan, and Alberta plus the Peace River Region of British Columbia)

Weeds Controlled: See WEEDS CONTROLLED table for **Oxbow™ Prime** plus those weeds listed on the Everest 3.0 AG label.

Treatment Stage: Spring wheat may be treated at the 3- to 6-leaf stage of growth (4-leaf on the main stem, plus 2 tillers).

Spray Volume & Pressure: Apply in 50-100 litres of water per hectare at 207 to 345 kPa.

Application Rate: 1.25-1.67 L/ha **Oxbow™ Prime** + Everest 3.0 AG at a registered rate up to and including 144 mL/ha + 0.25% v/v of a registered non-ionic surfactant such as Agral® 90, Ag-Surf® or LI-700®.

Note: Everest 3.0 AG should be added to the spray tank first, agitated, then add **Oxbow™ Prime**, and add the surfactant last. Ground application only. DO NOT apply using aerial application equipment.

Oxbow™ Prime + Simplicity™ GoDRI™ Herbicide

(For use in Manitoba, Saskatchewan, and Alberta plus the Peace River Region of British Columbia)

Weeds Controlled: See WEEDS CONTROLLED table for **Oxbow™ Prime** plus those weeds listed on the Simplicty GoDRI label.

Treatment Stage: Spring wheat and durum wheat may be treated at the 3-leaf until before the flag leaf stage. Winter wheat may be treated in the spring from early tillering until prior to the flag leaf stage.

Spray Volume & Pressure: Apply in 50-100 litres of water per hectare at 207 to 345 kPa.

Application Rate: Spring wheat or durum wheat, apply 1.25-1.67 L/ha Oxbow™ Prime + Simplicity GoDRI at 70 g/ha. Winter wheat, apply 1.25-1.67 L/ha Oxbow™ Prime + Simplicity GoDRI at 52 or 70 g/ha + 0.25% v/v of one of the following surfactants: Super Spreader, LI 700, Agral 90, Ag-Surf.

Note: Simplicity GoDRI should be added to the spray tank first, agitated, then add Oxbow™ Prime, and add the surfactant last. Ground application only. DO NOT apply using aerial application equipment.

Oxbow[™] Prime <u>+ Epic[®] II Herbicide Tank Mix</u>

(For use in Manitoba, Saskatchewan, and Alberta plus the Peace River Region of British Columbia)

Weeds Controlled: See WEEDS CONTROLLED table for **Oxbow™ Prime** plus those weeds listed on the Epic II Herbicide Tank Mix label.

Treatment Stage: When spring wheat, durum wheat, or barley is in the 3-leaf until prior to flag leaf stage of growth.

Spray Volume & Pressure: Apply in 100 litres of water per hectare at 275 kPa.

Application Rate: 1.25-1.67 L/ha **Oxbow™ Prime** + Epic II Herbicide at 0.6 L/ha + Carrier adjuvant at 0.5% v/v (or other adjuvants listed on Epic II Herbicide label)

Note: Oxbow™ Prime should be added to the spray tank first, agitate, then add Epic II Herbicide, with Carrier adjuvant last. Ground application only. DO NOT apply using aerial application equipment.

Oxbow™ is a trademark of Nufarm Agriculture Inc.

All other products listed are trademarks of their respective companies.