

**For season-long weed control in corn and sorghum.
For weed control in certain other crops; in noncrop areas and industrial sites.**

CAUTION:

Keep out of reach of children. See additional caution statements on side of bag.

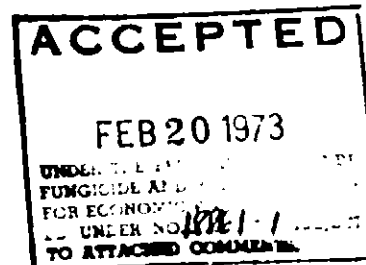
ACTIVE INGREDIENTS:

Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine) 70%
Related Compounds 4%
Inert ingredients 20%

MARZONE ATRAZINE IS A WETTABLE POWDER

Net contents 5 lbs.

EPA REG. NO. 10061-1



Manufactured by Marzone Chemicals Ltd.

BROOKLIN, CANADA — BRUSSELS, BELGIUM — KOLLUM, THE NETHERLANDS

18861-1

CAUTION

Keep out of reach of children. Harmful if swallowed. Avoid contact with eyes, prolonged contact with skin, inhalation of dust, and contamination of food and feed. Do not contaminate domestic or irrigation water supplies or lakes, streams or ponds. Do not reuse container. Destroy when empty.

SUGARCANE

For control of most nonrhizomatous weeds, such as crabgrass, junglerice, wiregrass, foxtail, amaranths, Flora's paintbrush, fireweed and similar plants: Broadcast 2 1/2 - 5 lbs. per acre in 20 - 50 gals. of water for adequate coverage of the soil surface at time of planting or ratooning, but before the cane emerges. One additional application may be made over the cane as it emerges, and two additional applications may be made interline after emergence, as a directed spray.

For control of emerged Pellitory Weed (artillery weed) (Florida only): Apply 1/2 - 3/4 lb. per acre in at least 40 gals. of water per acre as a directed spray. Add 2 qts. of surfactant for each 50 gals. of spray and be sure weed foliage is thoroughly covered.

PRECAUTIONS

- 1) Do not apply Marzone Atrazine after 'close in'.
- 2) Do not apply more than 12 1/2 lbs. of Marzone Atrazine to any one crop of cane.

FOREST AND CHRISTMAS TREE PLANTATIONS

Douglas Fir, Grand Fir, Noble Fir, White Fir, Lodgepole Pine, Ponderosa Pine and Scotch Pine. (Pacific Northwest-west of Cascades only).

Annual broadleaf and grass weed control: Broadcast 2 1/2 - 5 lbs. in 20 - 40 gals. of water per acre to assure thorough coverage. For band applications, reduce the rate of Marzone Atrazine and volume of water in proportion to the area treated. For example, when treating a 4-foot band over trees planted in rows 8 feet apart, apply 1 1/4 to 2 1/2 lbs. per acre. Apply between fall and early spring while trees are dormant or soon after transplanting and before weeds are 1 1/2 inches high.

Quackgrass control: Broadcast 5 lbs. per acre in 20 - 40 gals. of water for adequate coverage. Apply in fall or early spring while trees are dormant and before weed seedlings are more than 1 1/2 inches high. This application will also control most annual broadleaf and grass weeds.

PRECAUTIONS

- 1) Do not graze treated areas.
- 2) Do not apply to seedbeds.
- 3) Do not make more than one application per year.

PERENNIAL RYEGRASS GROWN FOR SEED (Pacific Northwest Only)

For the control of annual broadleaf and grass weeds such as annual ryegrass, rattail fescue, and similar species: Broadcast 1 1/2 lbs. in 15 gals. or more water per acre, after first fall rains.

PRECAUTIONS

- 1) Apply only to perennial ryegrass stands from which a seed crop has been harvested.
- 2) Do not apply Marzone Atrazine to ryegrass more than 2 years in succession.
- 3) Do not graze treated land within 10 days of application.
- 4) Do not plant treated land to other crops for at least 16 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Apply Marzone Atrazine at rates recommended below, before or soon after weeds begin growth. Post emergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils. Do not contaminate domestic or irrigation water supplies, or lakes, streams or ponds.

Marzone Atrazine can be used to provide long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumberyards, petroleum tank farms, and in noncrop areas on farms such as around buildings, equipment and fuel

NOTE: For band applications, reduce the broadcast rate of Marzone Atrazine in proportion to the area treated.

RATE PER ACRE OF MARZONE ATRAZINE

Soil Texture	27		
	Broadcast in 20 - 40 gals. of water/acre	20-inch Band* in 10 - 20 gals. of water/acre.	13-inch Band* in 7 - 14 gals. of water/acre.
Light soils: Sands, loamy sands and sandy loams.	2 1/2 lbs.	1 1/4 lbs.	13 oz.
Medium Soils: Silt and clay loams that are low in organic matter.	3 lbs.	1 1/2 lbs.	1 lb.
Heavy Soils: Silt and clay loams with medium to high organic matter and clays, (including the dark prairie soils of the Corn Belt)	3 3/4 lbs.	1 lb. 14 oz.	1 1/4 lbs.
Peats, mucks and high organic clays (Apply post-emergence only).	3 3/4 lbs.	1 lb. 14 oz.	1 1/4 lbs.

* Based on 40-inch row spacing. For other band or row widths, adjust the rate in proportion to the area actually treated.

POST-EMERGENCE WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER

The addition of oil to Marzone Atrazine in water sprays may speed the activity of Marzone Atrazine and provide quicker kill of weeds. However, under certain conditions the use of oil may seriously damage corn. To minimize the possibility of damage to corn, follow the directions, procedures, and precautions given below.

GROUND APPLICATION

Broadcast 2 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20 - 40 gals. of water per acre after emergence but before weeds reach 1 1/2 inches in height.

AERIAL APPLICATION

Broadcast 2 1/2 lbs. of Marzone Atrazine and 1/2 gal. of emulsifiable oil* in no less than 5 gals. of water per acre after weed emergence but before weeds reach 1 1/2 inches in height.

* For combining with Marzone Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and / or crop injury.

PROCEDURES

- 1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as corn damage or sprayer clogging may result.
- 2) In a separate container, make a thin slurry of Marzone Atrazine in water, thoroughly wetting the Atrazine.
- 3) Fill the spray tank with water, allowing for the addition of Marzone Atrazine.
- 4) With the agitation system in operation, add the Atrazine slurry.
- 5) Add the emulsifiable oil last.
- 6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of oil from the water mixture still remaining in the tank.

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PRECAUTIONS

- 1) Do not apply Marzone Atrazine after 'close in'.
- 2) Do not apply more than 12 1/2 lbs. of Marzone Atrazine to any one crop of cane.

FOREST AND CHRISTMAS TREE PLANTATIONS

Douglas Fir, Grand Fir, Noble Fir, White Fir, Lodgepole Pine, Ponderosa Pine and Scotch Pine. (Pacific Northwest-west of Cascades only).

Annual broadleaf and grass weed control: Broadcast 2 1/2 - 5 lbs. in 20 - 40 gals of water per acre to assure thorough coverage. For band applications, reduce the rate of Marzone Atrazine and volume of water in proportion to the area treated. For example, when treating a 4-foot band over trees planted in rows 8 feet apart, apply 1 1/4 to 2 1/2 lbs. per acre. Apply between fall and early spring while trees are dormant or soon after transplanting and before weeds are 1 1/2 inches high.

Quackgrass control: Broadcast 5 lbs. per acre in 20 - 40 gals. of water for adequate coverage. Apply in fall or early spring while trees are dormant and before weed seedlings are more than 1 1/2 inches high. This application will also control most annual broadleaf and grass weeds.

PRECAUTIONS

- 1) Do not graze treated areas
- 2) Do not apply to seedbeds
- 3) Do not make more than one application per year

PERENNIAL RYEGRASS GROWN FOR SEED (Pacific Northwest Only).

For the control of annual broadleaf and grass weeds such as annual ryegrass, rattail fescue, and similar species: Broadcast 1 1/2 lbs. in 15 gals. or more water per acre, after first fall rains.

PRECAUTIONS

- 1) Apply only to perennial ryegrass stands from which a seed crop has been harvested.
- 2) Do not apply Marzone Atrazine to ryegrass more than 2 years in succession.
- 3) Do not graze treated land within 10 days of application
- 4) Do not plant treated land to other crops for at least 16 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Apply Marzone Atrazine at rates recommended below, before or soon after weeds begin growth. Post-emergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils. Do not contaminate domestic or irrigation water supplies, or lakes, streams or ponds. Marzone Atrazine can be used to provide long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumberyards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences and lanes.

Use at least 1 gal. of water for each lb. of Marzone Atrazine, more if practical. Mechanical bypass or jet agitation is necessary to keep Marzone Atrazine in suspension during application. To control most annual broadleaf and grass weeds (such as barnyardgrass, cheatgrass, crabgrass, lambsquarters, foxtail, ragweed, puncturevine, and turkey mullen): Broadcast 6 - 12 1/2 lbs. per acre.

To control hard-to-kill annual and many perennial broadleaf and grass weeds (such as blue grass, burdock, Canada thistle, dogfennel, orchardgrass, plantain, quackgrass, purple top, redtop, and smooth brome): Broadcast 12 1/2 - 25 lbs. per acre.

To control hard-to-kill biennial and perennial weeds such as bull thistle and sow-thistle: Broadcast 25 - 50 lbs. per acre.

For longer residual control in regions of high rainfall and a long growing season: Broadcast 25 - 50 lbs. per acre
For small areas, 4 1/2 oz. per 1,000 sq. ft. is equivalent to 12 1/2 lbs. per acre

CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oats, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarters, pigweed, ragweed, nightshade, purslane, and mustard. Marzone Atrazine may be applied either before planting, at planting, or after planting, using 2 1/2 - 3 3/4 lbs. per acre as indicated below.

For preplant and pre-emergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for Marzone Atrazine. Do not apply after corn has emerged as there is danger of liquid fertilizers causing crop injury.

PREPLANT

Broadcast in the spring after plowing at the rate indicated in the table below. Application may be made before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of Marzone Atrazine. Best results have been obtained when Marzone Atrazine is applied within two weeks prior to planting.

PRE-EMERGENCE

Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

POST-EMERGENCE

Apply before weeds exceed 1 1/2 inches in height, at the rate indicated in the table below.

that are low in organic matter.

Heavy Soils
Silt and clay loams with medium to high organic matter and clays, (including the dark prairie soils of the Corn Belt)

3 3/4 lbs.

1 lb. 14 oz.

1 3/4 lbs.

Peats, mucks and high organic clays (Apply post-emergence only).

3 3/4 lbs.

1 lb. 14 oz.

1 3/4 lbs.

* Based on 40-inch row spacing. For other band row widths, adjust the rate in proportion to the area actually treated.

POST-EMERGENCE WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER

The addition of oil to Marzone Atrazine in water sprays may speed the activity of Marzone Atrazine and provide quicker kill of weeds. However, under certain conditions the use of oil may seriously damage corn. To minimize the possibility of damage to corn, follow the directions, procedures, and precautions given below.

GROUND APPLICATION

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Broadcast 2 1/2 lbs. of Marzone Atrazine and 1/2 gal. of emulsifiable oil* in no more than 5 gals. of water per acre after weed emergence but before weeds reach 1 1/2 inches in height.

* For combining with Marzone Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and / or crop injury.

PROCEDURES

- 1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as corn damage or sprayer clogging may result.
- 2) In a separate container, make a thin slurry of Marzone Atrazine in water, thoroughly wetting the Atrazine.
- 3) Fill the spray tank with water, allowing for the addition of Marzone Atrazine.
- 4) With the agitation system in operation, add the Atrazine slurry.
- 5) Add the emulsifiable oil last.
- 6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of oil from the water in the spray mixture still remaining in the tank.
- 7) If an oil film starts to build up in the tank, drain the tank and clear out with a strong detergent solution or solvent.
- 8) Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

NOTE: 1) Do not use oil in Atrazine sprays when corn is under stress from prolonged cold WET WEATHER, poor fertility, or other factors, or when corn is wet and succulent from recent rainfall as crop injury may occur.

- 2) Do not use oil in sprays when treating inbred lines or any breeding stock as crop injury may occur.
- 3) Adding other insecticides, herbicides, liquid fertilizers, or other materials is not recommended with Atrazine and emulsifiable oil in water because they may cause compatibility problems or crop injury.
- 4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- 5) Do not make more than one application of Marzone Atrazine and emulsifiable oil in water per season.

NORTHERN NUTGRASS OR YELLOW NUTSEDGE (*Cyperus esculentus*)

CONTROL: Broadcast 5 lbs. per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1 1/2 inches high. If applied before nutgrass begins growth, cultivate within 2 - 3 weeks. If applied after nutgrass has emerged, cultivate within 10 - 14 days.

QUACKGRASS CONTROL ON LAND GOING INTO CORN PRODUCTION

Split application: Broadcast 2 1/2 lbs. per acre in the fall or spring and plow 1 - 3 weeks later. Broadcast a second application at the rate of 2 1/2 lbs. per acre in the spring before, during or after planting but before weeds are 1 1/2 inches high. This split application will control both quackgrass and most annual broadleaf and grass weeds.

Single application: Broadcast 3 3/4 lbs. to 5 lbs. per acre in the fall or spring. Plow 1 - 3 weeks after application.

PRECAUTIONS

- 1) Do not apply more than 5 lbs. of Marzone Atrazine to corn in any one year.
- 2) Land treated with Marzone Atrazine should not be planted to any crop except corn until the following year or injury may occur.
- 3) Following harvest of a treated crop, plow (moldboard or diskplow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

See for more instructions back of this bag

- 1) Do not apply Marzone Atrazine after 'close in'.
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PRECAUTIONS

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- 2) Do not apply Marzone Atrazine to ryegrass more than 2 years in succession.
- 3) Do not graze treated land within 10 days of application.
- 4) Do not plant treated land to other crops for at least 16 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Apply Marzone Atrazine at rates recommended below, before or soon after weeds begin growth. Post-emergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils. Do not contaminate domestic or irrigation water supplies or lakes, streams or ponds. Marzone Atrazine can be used to provide long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumberyards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences and lanes.

Use at least 1 gal. of water for each lb. of Marzone Atrazine, more if practical. Mechanical bypass or jet agitation is necessary to keep Marzone Atrazine in suspension during application. To control most annual broadleaf and grass weeds (such as barnyardgrass, cheatgrass, crabgrass, lambsquarters, foxtail, ragweed, puncturevine, and turkey mullein) Broadcast 6 - 12 1/2 lbs. per acre.

To control hard-to-kill annual and many perennial broadleaf and grass weeds (such as bluegrass, burdock, Canada thistle, dogfennel, orchardgrass, plantain, quackgrass, purple top, redtop, and smooth bromegrass): Broadcast 12 1/2 - 25 lbs. per acre.

To control hard-to-kill biennial and perennial weeds such as bull thistle and sow thistle: Broadcast 25 - 50 lbs. per acre.

For longer residual control in regions of high rainfall and a long growing season: Broadcast 25 - 50 lbs. per acre.

For small areas, 4 1/2 oz. per 1,000 sq. ft. is equivalent to 12 1/2 lbs. per acre.

CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oats, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarters, pigweed, ragweed, nightshade, purslane, and mustard. Marzone Atrazine may be applied either before planting, at planting, or after planting, using 2 1/2 - 3 3/4 lbs. per acre as indicated below.

For preplant and pre-emergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for Marzone Atrazine. Do not apply after corn has emerged as there is danger of liquid fertilizers causing crop injury.

PREPLANT

Broadcast in the spring after plowing at the rate indicated in the table below. Application may be made before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of Marzone Atrazine. Best results have been obtained when Marzone Atrazine is applied within two weeks prior to planting.

PRE-EMERGENCE

Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

POST-EMERGENCE

Apply before weeds exceed 1 1/2 inches in height, at the rate indicated in the table below.

Heavy Soils

Silt and clay loams with medium to high organic matter and clays, (including the dark prairie soils of the Corn Belt)

2 3/4 lbs.

1 lb. 14 oz.

1 3/4 lbs.

Peats, mucks and high organic clays (Apply post-emergence only).

3 3/4 lbs.

1 lb. 14 oz.

1 3/4 lbs.

* Based on 40-inch row spacing. For other band or row widths, adjust the rate in proportion to the area actually treated.

POST-EMERGENCE WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER

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GROUND APPLICATION

Broadcast 2 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20 - 40 gals. of water per acre after emergence but before weeds reach 1 1/2 inches in height.

AERIAL APPLICATION

Broadcast 2 1/2 lbs. of Marzone Atrazine and 1/2 gal. of emulsifiable oil* in no less than 5 gals. of water per acre after weed emergence but before weeds reach 1 1/2 inches in height.

* For combining with Marzone Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and / or crop injury.

PROCEDURES

- 1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as corn damage or sprayer clogging may result.
- 2) In a separate container, make a thin slurry of Marzone Atrazine in water, thoroughly wetting the Atrazine.
- 3) Fill the spray tank with water, allowing for the addition of Marzone Atrazine.
- 4) With the agitation system in operation, add the Atrazine slurry.
- 5) Add the emulsifiable oil last.
- 6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank.
- 7) If an oil film starts to build up in the tank, drain the tank and clear out with a strong detergent solution or solvent.
- 8) Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

NOTE: 1) Do not use oil in Atrazine sprays when corn is under stress from prolonged cold, WET WEATHER, poor fertility, or other factors, or when corn is wet and succulent from recent rainfall as crop injury may occur.

2) Do not use oil in sprays when treating inbred lines or any breeding stock as injury may occur.

3) Adding other insecticides, herbicides, liquid fertilizers, or other materials is not recommended with Atrazine and emulsifiable oil in water because they may cause compatibility problems or crop injury.

4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.

5) Do not make more than one application of Marzone Atrazine and emulsifiable oil in water per season.

NORTHERN NUTGRASS OR YELLOW NUTSEDGE (*Cyperus esculentus*)

CONTROL: Broadcast 5 lbs. per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1 1/2 inches high. If applied before nutgrass begins growth, cultivate within 2 - 3 weeks. If applied after nutgrass has emerged, cultivate within 10 - 14 days.

QUACKGRASS CONTROL ON LAND GOING INTO CORN PRODUCTION

Split application: Broadcast 2 1/2 lbs. per acre in the fall or spring and plow 1 - 3 weeks later. Broadcast a second application at the rate of 2 1/2 lbs. per acre in the spring before, during or after planting but before weeds are 1 1/2 inches high. This split application will control both quackgrass and most annual broadleaf and grass weeds.

Single application: Broadcast 3 3/4 lbs. to 5 lbs. per acre in the fall or spring. Plow 1 - 3 weeks after application.

PRECAUTIONS

- 1) Do not apply more than 5 lbs. of Marzone Atrazine to corn in any one year.
- 2) Land treated with Marzone Atrazine should not be planted to any crop except corn until the following year or injury may occur.
- 3) Following harvest of a treated crop, plow (moldboard or diskplow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

See for more instructions back of this bag!

If Marzone Atrazine is applied after June 10 do not rotate with crops other than corn or sorghum the next year or injury may occur.

If Marzone Atrazine is used at a broadcast rate higher than 3 3/4 lbs. per acre (or comparable rates in a band application), a crop of untreated corn or sorghum could precede the next rotational crop.

In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Marzone Atrazine to control weeds only when corn is to follow corn or a crop of untreated corn or sorghum is to precede other rotational crops.

In Western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, corn treated with Marzone Atrazine should not be followed with soybeans if the broadcast rate applied was more than 2 1/2 lbs. per acre (or comparable rate in a band) or injury may occur.

Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes and grasses the year following Marzone Atrazine application or injury may occur.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)

Marzone Atrazine may be used to control many annual broadleaf and grass weeds in sorghum.

Apply at the rate indicated in the tables below. Weeds should not be more than 1 1/2 inches high at time of application. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

PRE-PLANT AND PRE-EMERGENCE APPLICATION (in eastern and central Nebraska and northeast Kansas only).**

Soil texture	Rate per acre of Marzone Atrazine		
	Broadcast in 20-40 gals. of water/acre	20-inch Band* in 10-20 gals. of water/acre	13-inch Band* in 7-14 gals. of water/acre

Do not use on sandy loam, eroded slopes and soils low in organic matter. **DO NOT USE**

Shallow soils (shallow incorporation may prove control).	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.
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Based on 40-inch row spacing. ** See pre-plant recommendations for corn.

Low-pressure nitrogen solutions or complete liquid fertilizers may be substituted for all or part of the water as a carrier for Marzone Atrazine. Do not apply nitrogen solutions or fertilizers after crop emergence as damage may result.

Soil texture	Stage or height of sorghum at treatment	Rate per acre of Marzone Atrazine		
		Broadcast in 20-40 gals. of water/acre	20-inch. band** in 10-20 gals. of water/acre	13-inch. band** in 7-14 gals. of water/acre

Do not use on loam or loamy sand. **DO NOT USE**

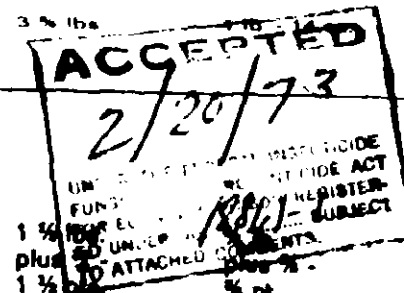
Do not use on sandy loam. **SEE BROADLEAF WEEDS BELOW**

Sandy loam	Completely emerged	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.
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Loam	At least 6 inches high	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.
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Clay loam and silt loam	Completely emerged	3 1/2 lbs.	1 1/2 lbs.	
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Sandy loam and silt loam in N.M., West Colo., desert and f. only	At least 8 inches high	1 1/2 lbs. plus 1/2 pt. surfactant	1 1/2 lbs. plus 1/2 pt. surfactant	1 1/2 lbs. plus 1/2 pt. surfactant
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18861-1

Based on 40-inch row spacing.

PRE-EMERGENCE BROADLEAF WEED CONTROL WITH MARZONE ATRAZINE EMULSIFIABLE OIL IN WATER (New Mexico, Oklahoma and Texas only).

Addition of oil to post-emergence Atrazine in water sprays may speed the activity of Atrazine and provide quicker kill of annual broadleaf weeds. However, under certain conditions, the use of oil may seriously damage sorghum. To minimize possibility of damage to sorghum, follow the directions and procedures given below.

- Do not use oil in Marzone Atrazine sprays when treating inbred lines or any breeding stock as injury may occur.
- Adding other pesticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury.
- Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- Do not make more than one application of Marzone Atrazine and emulsifiable oil in water per season.

PRECAUTIONS

- Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (plowed in). Deep planter marks or seed furrows should be leveled before application.
- Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury.
- Do not plant any rotational crops other than those specified in the Suggestion for Rotational Crops section below for 18 months following application.
- Do not graze or feed forage from treated areas for 21 days following application.
- Following harvest of a treated crop, plow (moldboard or disk plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

SUGGESTION FOR ROTATIONAL CROPS

- Sorghum or corn may be planted the year following treatment.
- All other rotational crops may be planted 18 months after application.
- When the broadcast rate used does not exceed 1 1/2 lbs. per acre, fall wheat may be planted 15 months after application.

MACADAMIA NUT

For pre-emergence control of many broadleaf and grass weeds such as crabgrass, foxtail, wiregrass, Flora's paintbrush, Spanishneedles and fireweed: Broadcast 2 1/2 - 5 lbs. in 50 gals. of water per acre before harvest and just prior to weed emergence. Repeat applications as necessary. Do not spray when nuts are on the ground during the harvest period. Do not make serial applications.

PINEAPPLE

For the control of purslane, Spanishneedles, annual grasses, annual bindweed, ageratum, amaranths, rattiepod, Flora's paintbrush, fireweed, spurge, indigo, papalo, and other similar weed species.

Make an initial application of up to 8 lbs. per acre as a blanket spray immediately after planting or following plant crop harvest.

Make additional blanket or interspace applications of up to 2 lbs. per acre of soil actually sprayed, at 1-2 month intervals as needed, prior to differentiation. Applications should be made in 20-40 gals. of water per acre to assure thorough coverage.

PRECAUTIONS

- Do not apply more than 37 1/2 lbs. of Marzone Atrazine per acre per cycle.
- Do not apply within 45 days of fruit harvest, or forage harvest if forage is to be fed to livestock.
- Repeated monthly applications to plant foliage may slow plant growth and delay fruiting.

TURF GRASSES FOR SOD PRODUCTION (St. Augustine, Centipede, and Zoysia Grass).

Broadcast 2 1/2 - 5 lbs. per acre according to soil type as indicated below. Apply in 20-40 gals. of water per acre for thorough coverage.

Muck or peat	5 lbs.	Old beds: within 2 days after lifting of sod. New beds: 3-4 days after sprigging or plugging.
Sandy soils	2 1/2 lbs.	Old beds: within 2 days after lifting of sod. New beds: 7-10 days after sprigging or plugging.

Apply additional 2 1/2 lbs. on muck or peat, or 1 1/2 lbs. on sandy soils, if weed growth recurs.

PRECAUTIONS

- Do not apply within 30 days of cutting or lifting.
- Do not apply Marzone Atrazine in combination with surfactants or other spray additives, as these combinations may cause injury.
- Do not use north of North Carolina.

DIRECTION FOR USE AND CONDITIONS OF SALE AND WARRANTY
IMPORTANT: Read the entire DIRECTIONS FOR USE and the CONDITIONS OF SALE AND WARRANTY before using this product.

CONDITIONS OF SALE AND WARRANTY: Marzone Chemicals Ltd. warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions for Sale, subject to the inherent risks referred to therein. Marzone Chemicals Ltd. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Marzone Chemicals Ltd. is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

Marzone Atrazine will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, pineapple and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in noncrop areas and industrial sites. Marzone Atrazine may be applied before or after weeds emerge.

Since Marzone Atrazine acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. Marzone Atrazine is a wettable powder that should be mixed with water and applied as a spray. Make a slurry by adding Marzone Atrazine to water. Pour the slurry into the sprayer.

texture	sorghum at treatment	20 - 40 gals. of water/acre	in 10 - 20 gals. of water/acre	in 7 - 14 gals. of water/acre
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leaf and grass weeds

d or loamy sand DO NOT USE

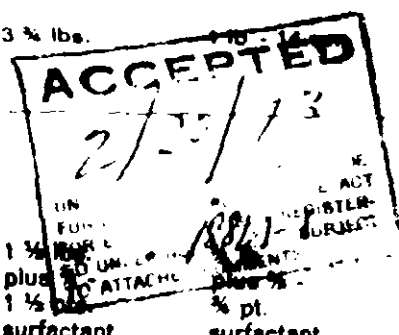
dy loam SEE BROADLEAF WEEDS BELOW

loam	Completely emerged	2 1/2 - 3 lbs	1 1/2 - 1 3/4 lbs	13 oz - 1 lb.
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Emergence application	Rate per acre of Marzone Atrazine			
in and man	At least 6 inches high	2 1/2 - 3 lbs	1 1/2 - 1 3/4 lbs	13 oz - 1 lb.

ly clay	Completely emerged	3 1/2 lbs.	1 1/2 lbs.
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leaf weeds	At least 6 inches high	1 1/2 lbs. plus 1/2 pt. surfactant	1 1/2 lbs. plus 1/2 pt. surfactant	1 1/2 lbs. plus 1/2 pt. surfactant
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18861-1

Based on 40-inch row spacing.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH MARZONE ATRAZINE EMULSIFIABLE OIL IN WATER (New Mexico, Oklahoma and Texas only).

Addition of oil to post-emergence Atrazine in water sprays may speed the activity of Atrazine and provide quicker kill of annual broadleaf weeds. However, under certain conditions, the use of oil may seriously damage sorghum. To minimize possibility of damage to sorghum, follow the directions and procedures given below.

GROUND APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20 - 40 gals water per acre when sorghum is 6 to 10 inches in height and before it reaches boot stage. Treat before broadleaf weeds reach 6 inches in height.

AERIAL APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1/2 gal of emulsifiable oil* in no less than 5 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches boot stage. Treat before broadleaf weeds reach 6 inches in height.

For combining with Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

PROCEDURES

- Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with oil or other materials as sorghum damage or sprayer clogging may result.
- In a separate container make a thin slurry of Marzone Atrazine in water, thoroughly mixing the Atrazine.
- Fill the spray tank with water, allowing for the addition of the Atrazine.
- With the agitation system in operation, add the Marzone Atrazine slurry.
- Add the emulsifiable oil last.
- Empty the tank as completely as possible before refilling to prevent a buildup of material in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank.
- If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
- Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

NOTE: 1) Do not use oil in Marzone Atrazine sprays when sorghum is under stress from prolonged cold, wet weather, poor fertility, or other factors or when sorghum is wet and succulent from recent rainfall as crop injury may occur.

Zoysia Grass).
Broadcast 2 1/2 - 5 lbs per acre according to soil type as indicated below. Apply in 20 - 40 gals of water per acre for thorough coverage.

Muck or peat	5 lbs	Old beds: within 2 days after lifting of sod
		New beds: 3 - 4 days after sprigging or plugging.
Sandy soils	2 1/2 lbs	Old beds: within 2 days after lifting of sod.
		New beds: 7 - 10 days after sprigging or plugging.

Apply additional 2 1/2 lbs. on muck or peat, or 1 1/2 lbs. on sandy soils, if weed growth recurs

PRECAUTIONS

- 1) Do not apply within 30 days of cutting or lifting
- 2) Do not apply Marzone Atrazine in combination with surfactants or other spray additives, as these combinations may cause injury
- 3) Do not use north of North Carolina.

DIRECTION FOR USE AND CONDITIONS OF SALE AND WARRANTY
IMPORTANT: Read the entire DIRECTIONS FOR USE and the CONDITIONS OF SALE AND WARRANTY before using this product.

CONDITIONS OF SALE AND WARRANTY: Marzone Chemicals Ltd warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions for Sale, subject to the inherent risks referred to therein. Marzone Chemicals Ltd. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Marzone Chemicals Ltd. is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

Marzone Atrazine will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, pineapple and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in noncrop areas and industrial sites. Marzone Atrazine may be applied before or after weeds emerge.

Since Marzone Atrazine acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. Marzone Atrazine is a wettable powder that should be mixed with water and applied as a spray. Make a slurry by adding Marzone Atrazine to water. Pour the slurry into the spray tank during or after filling. Sufficient hydraulic (jet) or mechanical agitation must be provided during mixing and application to keep the material in suspension.

Wash sprayer thoroughly after use.

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Marzone Atrazine is noncorrosive to equipment and metal surfaces, nonflammable, and has low electrical conductivity. Care should be taken to avoid using Marzone Atrazine where adjacent desirable trees, shrubs, or plants might be injured. Store Marzone Atrazine in a dry place. In each case where a range of rates is given, the lower rate should be used on light soils and soils low in organic matter; the higher rate should be used on heavy soils and soils high in organic matter.

GROUND APPLICATION

For uniform distribution in broadcast applications, TeeJet 8003 or 8004 fan type or similar nozzles with openings of equal or greater size should be used. For band applications, use TeeJet 8003-E or 8004-E or similar type nozzles. Screen in nozzles as well as those in suction and in-line strainers should be no finer than 50 mesh size. A suitable pump with capacity to deliver 10 - 12 gpm should be used and operating pressure should be 35 - 40 psc. Use 20 - 40 gals. of water per acre to assure even coverage unless otherwise specified.

AERIAL APPLICATION

Use only where broadcast applications are specified. Apply a minimum of 1 gallon of water for each 1 lb. to 1 1/2 lbs. of Marzone Atrazine to be applied per acre. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

INSTRUCTIONS FOR SAFE HANDLING

Avoid application directly to humans or animals. Although it is unnecessary for flagmen or loaders to wear protective clothing or equipment, care should be taken to avoid inhalation of dust or spray mist, or prolonged contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

MARZONE CHEMICALS Ltd. BROOKLIN, CANADA - BRUSSELS, BELGIUM - KOLLUM, THE NETHERLANDS

MARZONE B ATRAZINE 80

**For season-long weed control in
corn and sorghum.**

**For weed control in certain other
crops; in noncrop areas and
industrial sites.**

CAUTION:

Keep out of reach of children. See additional caution statements
on side of bag.

Manufactured by Mar

BROOKLIN, CANADA — BRUSSELS, BEL

CAUTION

Keep out of reach of children. Harmful if swallowed. Avoid contact with eyes, prolonged contact with skin, inhalation of dust, and contamination of food and feed. Do not contaminate domestic or irrigation water supplies or lakes, streams or ponds. Do not reuse container. Destroy when empty.

SUGARCANE

For control of most nonrhizomatous weeds, such as crabgrass, junglerice, wiregrass, roxtail, amaranths, Florida's paintbrush, fireweed and similar plants. Broadcast 2 1/2 - 5 lbs. per acre in 20 - 50 gals. of water for adequate coverage of the soil surface at time of planting or ratooning, but before the cane emerges. One additional application may be made over the cane as it emerges, and two additional applications may be made interline after emergence, as a directed spray.

For control of emerged Pellitory Weed (artillery weed) (Florida only). Apply 1/2 - 3/4 lb. per acre in at least 40 gals. of water per acre as a directed spray. Add 2 qts. of surfactant for each 50 gals. of spray and be sure weed foliage is thoroughly covered.

PRECAUTIONS

- 1) Do not apply Marzone Atrazine after "close in".
- 2) Do not apply more than 12 1/2 lbs. of Marzone Atrazine to any one crop of cane.

FOREST AND CHRISTMAS TREE PLANTATIONS

Douglas Fir, Grand Fir, Noble Fir, White Fir, Loblolly Pine, Pond Pine, ...

For control of emerged **Perennial weed (Florida only)**: Apply $1/2$ - $3/4$ lb. per acre in at least 40 gals. of water per acre as a directed spray. Add 2 qts. of surfactant for each 50 gals. of spray and be sure weed foliage is thoroughly covered.

PRECAUTIONS

- 1) Do not apply Marzone Atrazine after "close in".
- 2) Do not apply more than 12 $1/2$ lbs. of Marzone Atrazine to any one crop of cane.

FOREST AND CHRISTMAS TREE PLANTATIONS

Douglas Fir, Grand Fir, Noble Fir, White Fir, Lodgepole Pine, Ponderosa Pine and Scotch Pine (Pacific Northwest west of Cascades only)

Annual broadleaf and grass weed control: Broadcast 2 $1/2$ lbs. in 20-40 gals. of water per acre. For a more thorough coverage, first and apply it to reduce the rate of Marzone Atrazine and volume of water to about half that of the pre-treated. For example, when treating a 4 foot wide evergreen plantation with 8 feet apart, apply 1 $1/4$ to 2 $1/2$ lbs. per acre. Apply between fall and early spring while trees are dormant or soon after transplanting to before weeds reach 1 $1/2$ inches high.

Quackgrass control: Broadcast 1 lb. per acre in 20-40 gals. of water for adequate coverage. Apply in fall or early spring while trees are dormant and before weed seed heads are more than 1 $1/2$ inches high. This application will control most annual broadleaf and grass weeds.

PRECAUTIONS

- 1) Do not graze treated areas.
- 2) Do not apply to seedbeds.
- 3) Do not make more than one application per year.

PERENNIAL RYEGRASS GROWN FOR SEED (Pacific Northwest Only).

For the control of annual broadleaf and grass weeds such as annual ryegrass, rattail fescue, and similar species: Broadcast 1 $1/2$ lbs. in 15 gals. or more water per acre, after fast fall rains.

PRECAUTIONS

- 1) Apply only to perennial ryegrass stands from which a seed crop has been harvested.
- 2) Do not apply Marzone Atrazine to ryegrass more than 2 years in succession.
- 3) Do not graze treated land within 10 days of application.
- 4) Do not plant treated land to other crops for at least 16 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Apply Marzone Atrazine at rates recommended below, before or soon after weeds begin growth. Post-emergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils. Do not contaminate domestic or irrigation water supplies, or lakes, streams, or ponds. Marzone Atrazine can be used to provide long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumber yard, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, and lanes.

Use at least 1 gal. of water for each lb. of Marzone Atrazine, more if practical. Mechanical bypass or jet agitation is necessary to keep Marzone Atrazine in suspension during application. To control most annual broadleaf and grass weeds (such as curlygrass, cheatgrass, crabgrass, lambsquarters, foxtail, ragweed, puncturevine, and turkey mullein): Broadcast 6 - 12 $1/2$ lbs. per acre.

To control hard-to-kill annual and many perennial broadleaf and grass weeds (such as blue grass, burdock, Canada thistle, dogfennel, oniongrass, plantain, quackgrass, purple top, redtop, and smooth brome): Broadcast 10 - 25 lbs. per acre.

To control hard-to-kill biennial and perennial weeds such as the thistle and snow thistle: Broadcast 25-50 lbs. per acre.
For longer residual control in regions of high rainfall and during the winter season: Broadcast 25 - 50 lbs. per acre.
For small areas, 4 $1/2$ oz. per 1,000 sq. ft. is equivalent to 12 $1/2$ lbs. per acre.

CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oats, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarters, pigweed, ragweed, nightshade, purslane, and mustard. Marzone Atrazine may be applied either before planting, at planting, or after planting, using 2 $1/2$ - 3 $1/2$ lbs.

Silt and clay loams that are low in organic matter 3 lbs. 1 $1/2$ lbs. 1 lb.

Heavy Soils:

Silt and clay loams with medium to high organic matter and clays, (including the dark prairie soils of the Corn Belt) 3 $3/4$ lbs. 1 lb. 14 oz. 1 $1/2$ lbs.

Peats, mucks, and high organic clays. (Apply post-emergence only) 4 lbs. 1 lb. 14 oz. 1 $1/2$ lbs.

* Based on 40 inch row spacing. For other band or row widths, adjust the rate in proportion to the area actually treated.

POST-EMERGENCE WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER

The addition of oil to Marzone Atrazine in water sprays may speed the activity of Marzone Atrazine and provide quicker kill of weeds. However, under certain conditions the use of oil may seriously damage corn. To minimize the possibility of damage to corn, follow the directions, procedures, and precautions given below.

GROUND APPLICATION

Broadcast 2 $1/2$ lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20-40 gals. of water per acre after emergence but before weeds reach 1 $1/2$ inches in height.

AERIAL APPLICATION

Broadcast 2 $1/2$ lbs. of Marzone Atrazine and 1 $1/2$ gal. of emulsifiable oil* in no less than 5 gals. of water per acre after weed emergence but before weeds reach 1 $1/2$ inches in height.

* For combining with Marzone Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and / or crop injury.

PROCEDURES

- 1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as corn damage or sprayer clogging may result.
- 2) In a separate container, make a thin slurry of Marzone Atrazine in water, thoroughly wetting the Atrazine.
- 3) Fill the spray tank with water, allowing for the addition of Marzone Atrazine.
- 4) With the agitation system in operation, add the Atrazine slurry.
- 5) Add the emulsifiable oil last.
- 6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank.
- 7) If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
- 8) Clean the sprayer **thoroughly** immediately after use by flushing the system with water containing a detergent.

NOTE: 1) Do not use oil in Atrazine sprays when corn is under stress from prolonged cold, WET WEATHER, poor fertility, or other factors, or when corn is wet and succulent from recent rainfall as crop injury may occur.
2) Do not use oil in sprays when treating inbred lines, or any breeding stock, as injury may occur.
3) Adding other insecticides, herbicides, liquid fertilizer, or other materials is not recommended with Atrazine and emulsifiable oil in water because they may cause compatibility problems or crop injury.
4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
5) Do not make more than one application of Marzone Atrazine at a constant rate of water per season.

NORTHERN NUTGRASS OR YELLOW NUTSEGE (*Cyperus esculentus*)

CONTROL: Broadcast 5 lbs. per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1 $1/2$ inches high. If applied before nutgrass begins

PERENNIAL RYEGRASS GROWN FOR SEED (Climax, Northwest, etc.)

For the control of annual broadleaf and grass weeds such as annual ryegrass, rattail, foxtail, and similar species. Broadcast 1 1/2 lbs. in 15 gal. or more water per acre after first fall rains.

PRECAUTIONS

- 1) Apply only to emergence of weeds, not to plants already well established.
- 2) Do not apply Marzone-Atrazine to ryegrass more than 2 years in a row.
- 3) Do not apply to seed crops within 10 days of application.
- 4) Do not apply to seed crops to which you intend to rotate at least 10 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

For control of broadleaf and grass weeds on noncrop land, such as roadsides, utility rights-of-way, and other areas. Apply Marzone-Atrazine to weeds in the early stages of growth. Do not apply to crops, pastures, or areas where crops are to be planted. Do not apply to areas where crops are to be grazed. Do not apply to areas where crops are to be planted or grazed within 10 days of application. Do not apply to areas where crops are to be planted or grazed within 10 days of application. Do not apply to areas where crops are to be planted or grazed within 10 days of application.

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For control of broadleaf and grass weeds on noncrop land, such as roadsides, utility rights-of-way, and other areas. Apply Marzone-Atrazine to weeds in the early stages of growth. Do not apply to crops, pastures, or areas where crops are to be planted. Do not apply to areas where crops are to be grazed. Do not apply to areas where crops are to be planted or grazed within 10 days of application. Do not apply to areas where crops are to be planted or grazed within 10 days of application.

CORN

For control of broadleaf and grass weeds such as barnyard grass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oats, large crabgrass, ragrags, smart foxtail, velvetleaf, morning glory, lamb quarters, pigweed, ragweed, nightshade, purslane, and mustard. Marzone-Atrazine may be applied either before or after planting, or after planting, at a rate of 2 1/2 to 3 1/2 lbs. per acre, broadcast or in rows.

For control of broadleaf and grass weeds such as barnyard grass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oats, large crabgrass, ragrags, smart foxtail, velvetleaf, morning glory, lamb quarters, pigweed, ragweed, nightshade, purslane, and mustard. Marzone-Atrazine may be applied either before or after planting, or after planting, at a rate of 2 1/2 to 3 1/2 lbs. per acre, broadcast or in rows.

PREPLANT

Preplant in the spring after plowing at the rate indicated in the table below. Also may be made preemergence or after final seedbed preparation. If this treatment must be applied to land which has been in operation of Marzone-Atrazine, broadcast or in rows, only when Marzone-Atrazine is applied within two weeks of planting.

PRE EMERGENCE

Apply in rows or in fields after planting prior to weed emergence at the rate indicated in the table below.

POST EMERGENCE

Apply before weed emergence to corn less than 10 inches high at the rate indicated in the table below.

or water per acre after emergence but before weeds reach 1 1/2 inches in height.

AERIAL APPLICATION

Broadcast 2 1/2 lbs. of Marzone-Atrazine and 1/2 pint of emulsifiable oil per acre in 5 gals. of water per acre after weed emergence but before weeds reach 1 1/2 inches in height.

* For combining with Marzone-Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and / or crop injury.

PROCEDURES

- 1) Measure dry weight of product to be applied to water in a tank treated with 1/400 part of a suitable emulsifier. Do not use a tank which has been used for other materials.
- 2) Add the emulsifier to the tank.
- 3) Add the Marzone-Atrazine to the tank.
- 4) Add the crop oil to the tank.
- 5) Add the emulsifiable oil to the tank.
- 6) Agitate the tank to insure proper mixing.
- 7) Do not apply to crops, pastures, or areas where crops are to be planted or grazed within 10 days of application.
- 8) Do not apply to areas where crops are to be planted or grazed within 10 days of application.
- 9) Do not apply to areas where crops are to be planted or grazed within 10 days of application.

NOTE: 1) Do not use oil in Atrazine spray when corn is under stress from pro-longed WET WEATHER, poor fertility, or other factors, or when corn is wet and dependent from recent rainfall as crop injury may occur.

- 2) Do not use oil in sprays when treating hybrid lines, or any breeding stock as injury may occur.
- 3) Adding other pesticides, herbicides, liquid fertilizers, or other materials is not recommended with Atrazine and emulsifiable oil in water because they may cause compatibility problems or crop injury.
- 4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- 5) Do not make more than one application of Marzone-Atrazine and emulsifiable oil in water per season.

NORTHERN NUTGRASS OR YELLOW NUTSEDEGE (*Cyperus esculentus*)

CONTROL: Broadcast 5 lbs. per acre preplant, pre-emergence, or in rows before weeds are more than 1 1/2 inches high. If applied before or after planting, apply within 2-3 weeks. If applied after nutgrass has emerged, cut into water within 10-14 days.

QUACKGRASS CONTROL ON LAND GOING INTO CORN PRODUCTION

Split application. Broadcast 2 1/2 lbs. per acre in the fall, in spring and plow 1-3 weeks later. Broadcast in rows or in fields at the rate of 2 1/2 lbs. per acre in the spring before or after planting but before weeds are 1 1/2 inches high. To split application will control both quackgrass and most annual broadleaf and grass weeds.

For control of broadleaf and grass weeds on noncrop land, such as roadsides, utility rights-of-way, and other areas. Apply Marzone-Atrazine to weeds in the early stages of growth. Do not apply to crops, pastures, or areas where crops are to be planted. Do not apply to areas where crops are to be grazed. Do not apply to areas where crops are to be planted or grazed within 10 days of application. Do not apply to areas where crops are to be planted or grazed within 10 days of application.

PRECAUTIONS

- 1) Do not apply more than 5 lbs. of Marzone-Atrazine to corn in any one year.
- 2) Land treated with Marzone-Atrazine should not be planted to any crop except corn until the following year or injury may occur.
- 3) Following harvest of a treated crop, plow (or disk and/or disow) and then apply 1/2 to 1 pint of oil in the fall or spring to minimize possible injury to rotational crops, seeded crops, regardless of the rate used.

See for more instructions, Back of the Bag.

- 4) If Marzone Atrazine is applied after June 10 do not rotate with crops other than corn or sorghum the next year or injury may occur.
- 5) If Marzone Atrazine is used at a broadcast rate higher than 3 3/4 lbs. per acre (or comparable rates in a band application), a crop of untreated corn or sorghum should precede the next rotational crop.
- 6) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Marzone Atrazine to control weeds in corn only when corn is to follow corn or a crop of untreated corn or sorghum is to precede other rotational crops.
- 7) In Western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, corn treated with Marzone Atrazine should not be followed with soybeans if the broadcast rate applied was more than 2 1/2 lbs. per acre (or comparable rate in a band) or injury may occur.
- 8) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes and grasses the year following Marzone Atrazine application or injury may occur.
- 9) Do not graze treated area or feed treated forage to livestock for 21 days following application.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)

Marzone Atrazine may be used to control many annual broadleaf and grass weeds in sorghum.

Apply at the rate indicated in the tables below. Weeds should not be more than 1 1/2 inches high at time of application. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

PREPLANT AND PRE-EMERGENCE APPLICATION (in eastern and central Nebraska and northeast Kansas only).**

Broadleaf and grass weed control

Soil Texture	Rate per acre of Marzone Atrazine		
	Broadcast in 20 - 40 gals. of water/acre	20-inch Band* in 10 - 20 gals. of water/acre	13-inch Band* in 7 - 14 gals. of water/acre
Sand to sandy loam, eroded slopes and soils low in organic matter	DO NOT USE		
Other soils (shallow incorporation may improve control)	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.

* Based on 40-inch row spacing.

** See pre-plant recommendations for corn.

Non-pressure nitrogen solutions or complete liquid fertilizers may be substituted for all or part of the water as a carrier for Marzone Atrazine. Do not apply nitrogen solutions or fertilizers after crop emergence as damage may result.

Post-emergence application

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Rate per acre of Marzone Atrazine		
		Broadcast in 20 - 40 gals. of water/acre	20-inch band** in 10 - 20 gals. of water/acre	13-inch band** in 7 - 14 gals. of water/acre

Broadleaf and grass weeds

Sand or loamy sand

DO NOT USE

- 2) Do not use oil in Marzone Atrazine sprays when treating inbred lines or any breeding stock as injury may occur.
- 3) Adding other pesticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury.
- 4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- 5) Do not make more than one application of Marzone Atrazine and emulsifiable oil in water per season.

PRECAUTIONS

- 1) Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow planted sorghum should not be made until furrows are leveled (plowed in). Deep planter marks or seed furrows should be leveled before application.
- 2) Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury.
- 3) Do not plant any rotational crops other than those specified in the Suggestions for Rotational Crops section below for 18 months following application.
- 4) Do not graze or feed forage from treated areas for 21 days following application.
- 5) Following harvest of a treated crop, plow (moldboard or disk plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

SUGGESTION FOR ROTATIONAL CROPS

- 1) Sorghum or corn may be planted the year following treatment.
- 2) All other rotational crops may be planted 18 months after application.
- 3) When the broadcast rate used does not exceed 1 1/2 lbs. per acre, fall wheat may be planted 15 months after application.

MACADAMIA NUTS

For pre-emergence control of many broadleaf and grass weeds such as crabgrass, foxtail, wiregrass, Flora's paintbrush, Spanishneedles and fireweed. Broadcast 2 1/2 - 5 lbs. in 50 gals. of water per acre before harvest and just prior to weed emergence. Repeat applications as necessary. Do not spray when nuts are on the ground during the harvest period. **Do not make aerial applications.**

PINEAPPLE

For the control of purslane, Spanishneedles, annual grasses, annual bindweed, ageratum, amaranths, rattlepod, Flora's paintbrush, fireweed, spurge, Indigo, papalo, and other similar weed species.

Make an initial application of up to 8 lbs. per acre as a blanket spray immediately after planting or following plant crop harvest.

Make additional blanket or interspace applications of up to 2 lbs. per acre of soil actually sprayed, at 1 - 2 month intervals as needed, prior to differentiation. Applications should be made in 20 - 40 gals. of water per acre to assure thorough coverage.

PRECAUTIONS

- 1) Do not apply more than 37 1/2 lbs. of Marzone Atrazine per acre per cycle.
- 2) Do not apply within 45 days of fruit harvest, or forage harvest if forage is to be fed to livestock.
- 3) Repeated monthly applications to plant foliage may slow plant growth and delay fruiting.

TURF GRASSES FOR SOD PRODUCTION (St. Augustine, Centipede, and Zoysia Grass).

Broadcast 2 1/2 - 5 lbs. per acre according to soil type as indicated below. Apply in 20 - 40 gals. of water per acre for thorough coverage.

Muck or peat	5 lbs.	Old beds	within 7 days after lifting or sod
		New beds	3 - 4 days after sprigging or plugging

Post-emergence application	Rate per acre of Marzone Atrazine
Weeds to be controlled and soil texture	Stage or height of sorghum at treatment
	Broadcast in 20 - 40 gals. of water/acre
	20-inch band** in 10 - 20 gals. of water/acre
	13-inch band** in 7 - 14 gals. of water/acre

Broadleaf and grass weeds

Sand or loamy sand

DO NOT USE

Sandy loam

SEE BROADLEAF WEEDS BELOW

Silt loam to sandy clay loam	Completely emerged	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.
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Post-emergence application Rate per acre of Marzone Atrazine

Olton and Pullman clay loam	At least 6 inches high	2 1/2 - 3 lbs.	1 1/4 - 1 1/2 lbs.	13 oz. - 1 lb.
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Silty clay loams and heavier soils	Completely emerged	3 3/4 lbs.	1 1/4 - 1 1/2 lbs.	1 1/4 lbs.
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Broadleaf weeds

Sandy loams and heavier soils in Okla., N.M., Tex., West Kans., Colo. and desert regions of Ariz. and Calif. only	At least 6 inches high	1 1/2 lbs. plus 1/4 pt. surfactant	1 1/4 lbs. plus 1/4 pt. surfactant	1/2 lb. plus 1/4 - 1/2 pt. surfactant
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** Based on 40-inch row spacing.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER (New Mexico, Oklahoma and Texas only).

The addition of oil to post-emergence Atrazine in water sprays may speed the activity of Atrazine and provide quicker kill of annual broadleaf weeds. However, under certain conditions, the use of oil may seriously damage sorghum. To minimize the possibility of damage to sorghum, follow the directions and procedures given below.

GROUND APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20 - 40 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches the boot stage. Treat before broadleaf weeds reach 6 inches in height.

AERIAL APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1/2 gal. of emulsifiable oil* in no less than 5 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches boot stage. Treat before broadleaf weeds reach 6 inches in height.

* For combining with Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

PROCEDURES

TURF GRASSES FOR SOD PRODUCTION (St. Augustine, Centipede, and Zoysia Grass).

Broadcast 2 1/2 - 5 lbs. per acre according to soil type as indicated below. Apply in 20 - 40 gals. of water per acre for thorough coverage.

Muck or peat	5 lbs.	Old beds	within 2 days after lifting of sod
		New beds	3 - 4 days after sprigging or plugging
Sandy soils	2 1/2 lbs.	Old beds	within 2 days after lifting of sod
		New beds	7 - 10 days after sprigging or plugging

Apply additional 2 1/2 lbs. on muck or peat or 1 1/4 lbs. on sandy soils if weed growth recurs.

PRECAUTIONS

- 1) Do not apply within 30 days of cutting or lifting.
- 2) Do not apply Marzone Atrazine in combination with surfactants or other spray additives, as these combinations may cause injury.
- 3) Do not use north of North Carolina.

DIRECTION FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire DIRECTIONS FOR USE and the CONDITIONS OF SALE AND WARRANTY before using this product.

CONDITIONS OF SALE AND WARRANTY: Marzone Chemicals Ltd. warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions for Sale, subject to the inherent risks referred to therein. Marzone Chemicals Ltd. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Marzone Chemicals Ltd. is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

Marzone Atrazine will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, pineapple and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in non-crop areas and industrial sites. Marzone Atrazine may be applied before or after weeds emerge.

Since Marzone Atrazine acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

Marzone Atrazine is a wettable powder that should be mixed with water and applied as a spray. Make a slurry by adding Marzone Atrazine to water. Pour the slurry into the spray tank during or after filling. Sufficient hydraulic (jet) or mechanical agitation must be provided during mixing and application to keep the material in suspension.

Wash sprayer thoroughly after use.

Marzone Atrazine is noncorrosive to equipment and metal surfaces, nonflammable, and has low electrical conductivity.

Care should be taken to avoid using Marzone Atrazine where adjacent desirable trees, shrubs, or plants might be injured.

Store Marzone Atrazine in a dry place.

In each case where a range of rates is given, the lower rate should be used on light soils and soils low in organic matter, the higher rate should be used on heavy soils and soils high in organic matter.

GROUND APPLICATION

Broadleaf weeds

Sandy loams and heavier soils in Okla., N.M., Tex., West Kans., Colo. and desert regions of Ariz. and Calif. only

At least 6 inches high

1 1/2 lbs. plus 1/4 - 1/2 pt. surfactant

plus 1/4 - 1/2 pt. surfactant

1/2 lb. plus 1/4 - 1/2 pt. surfactant

** Based on 40 inch row spacing

POST-EMERGENCE BROADLEAF WEED CONTROL WITH MARZONE ATRAZINE AND EMULSIFIABLE OIL IN WATER (New Mexico, Oklahoma and Texas only).

The addition of oil to post emergence Atrazine in water sprays may speed the activity of Atrazine and provide quicker kill of annual broadleaf weeds. However, under certain conditions, the use of oil may seriously damage sorghum. To minimize the possibility of damage to sorghum, follow the directions and procedures given below.

GROUND APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in 20 - 40 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches the boot stage. Treat before broadleaf weeds reach 6 inches in height.

AERIAL APPLICATION

Broadcast 1 1/2 lbs. of Marzone Atrazine and 1 gal. of emulsifiable oil* in no less than 5 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches boot stage. Treat before broadleaf weeds reach 6 inches in height.

* For combining with Atrazine, use a crop oil designated for use with Atrazine containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

PROCEDURES

- 1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as sorghum damage or sprayer clogging may result.
- 2) In a separate container make a thin slurry of Marzone Atrazine in water, thoroughly wetting the Atrazine.
- 3) Fill the spray tank with water, allowing for the addition of the Atrazine.
- 4) With the agitation system in operation, add the Marzone Atrazine slurry.
- 5) Add the emulsifiable oil last.
- 6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank.
- 7) If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
- 8) Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

NOTE: 1) Do not use oil in Marzone Atrazine sprays when sorghum is under stress from prolonged cold, wet weather, poor fertility, or other factors or when sorghum is wet and succulent from recent rainfall as crop injury may occur.

SALE AND WARRANTY before using this product

CONDITIONS OF SALE AND WARRANTY: Marzone Chemicals Ltd. warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions for Sale, subject to the inherent risks referred to therein. Marzone Chemicals Ltd. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Marzone Chemicals Ltd. is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

Marzone Atrazine will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, pineapple and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in non-crop areas and industrial sites. Marzone Atrazine may be applied before or after weeds emerge.

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Wash sprayer thoroughly after use.

Marzone Atrazine is noncorrosive to equipment and metal surfaces, nonflammable, and has low electrical conductivity.

Care should be taken to avoid using Marzone Atrazine where adjacent desirable trees, shrubs, or plants might be injured.

Store Marzone Atrazine in a dry place.

In each case where a range of rates is given, the lower rate should be used on light soils and soils low in organic matter, the higher rate should be used on heavy soils and soils high in organic matter.

GROUND APPLICATION

For uniform distribution in broadcast applications, TeeJet 8003 or 8004 fan type or similar nozzles with openings of equal or greater size should be used. For band applications, use TeeJet 8003-E or 8004-E or similar type nozzles.

Screen in nozzles as well as those in suction and in-line strainers should be no finer than 50 mesh size. A suitable pump with capacity to deliver 10 - 12 gpm should be used and operating pressure should be 35 - 40 p.s.i. Use 20 - 40 gals. of water per acre to assure even coverage unless otherwise specified.

AERIAL APPLICATION

Use only where broadcast applications are specified. Apply a minimum of 1 gallon of water for each 1 lb. to 1 1/2 lbs. of Marzone Atrazine to be applied per acre. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

INSTRUCTIONS FOR SAFE HANDLING

Avoid application directly to humans or animals. Although it is unnecessary for flagmen or loaders to wear protective clothing or equipment, care should be taken to avoid inhalation of dust or spray mist, or prolonged contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

MARZONE CHEMICALS Ltd.

BROOKLIN, CANADA - BRUSSELS, BELGIUM - KOLLUM, THE NETHERLANDS