

MIXING RECOMMENDATIONS



Why Use Torpedo™?

Power. Combination of two active ingredients from two unique modes of action in *one granule*.

Wide Application Window. Pre and early post for bareground and non-crop areas.

Stay Where You Spray. Low risk of off-site movement.

What is Torpedo?

Torpedo is a combination of two active ingredients from herbicide Groups 14 and 15 in one granule for weed control in bareground situations. It creates a layer of active ingredient in the soil that plants must grow through in order to be affected. For optimal performance, it requires a minimum 0.5-1.0 cm of moisture to be activated and the soil should remain undisturbed.

Susceptible weeds will hit the Torpedo layer and often do not emerge. Weeds that do emerge appear twisted or crinkled due to irregular growth and will stop growing.

Torpedo Mixing Best Practices

1. Fill clean spray tank ½ to ⅔ of desired level with clean water.
2. To ensure a uniform spray mixture, pre-slurry the required amount of Torpedo herbicide with water prior to addition to the spray tank. Use a minimum of 3.8 litres (1 gallon) of water per 283 g (10 oz) of Torpedo herbicide.
3. While agitating, slowly add the pre-slurried Torpedo herbicide to the spray tank. Agitation should create a rippling or rolling action on the water surface.

4. After adding Torpedo, add tank mix partner product(s) in the following order:

- (1) water soluble granules;
- (2) wettable powders;
- (3) aqueous suspensions, flowables and liquids;
- (4) emulsifiable concentrates; and
- (5) solutions.

Allow time for complete mixing and dispersion after each addition.

5. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied. Aggressive over agitation may cause precipitate to form on the tank walls.**
6. Mix only the amount of spray solution that can be applied the day of mixing. Torpedo herbicide should be applied within 6 hours of mixing.
7. If product is allowed to settle, thoroughly agitate to re-suspend the mixture before spraying.

Tank Mixes	Surfactant Recommendations
Torpedo + OcTTain™ XL + Clearview™ (with or without VP480™)	Add Agral® 90 at 0.25% to 1% or equivalent non-ionic surfactant, and continue agitation while filling the spray tank with clean water to the required volume. If mixing issues are experienced, higher rates of 0.5% to 1.0% have been found to be beneficial in keeping multiple products in solution.
Torpedo + OcTTain XL + Milestone™ (with or without VP480)	
Torpedo + OcTTain XL (with or without VP480)	
Torpedo + Sightline™ (with or without VP480)	
Torpedo + Clearview (with or without VP480)	Add Gateway at 0.25% to 1% or equivalent non-ionic surfactant (such as Agral 90 or Hasten), and continue agitation while filling the spray tank with clean water to the required volume. If mixing issues are experienced, higher rates of 0.5% to 1.0% have been found to be beneficial in keeping multiple products in solution. Gateway or Hasten surfactant may be used with Torpedo in these tank mixes.
Torpedo + Milestone (with or without VP480)	No surfactant is required for these mixes.
Torpedo + VP480	

Tank Mix Compatibility Testing

If you have not used a particular mixture before, perform a jar test prior to tank mixing to ensure compatibility of Torpedo as follows:

1. Use a clear glass quart jar with lid and mix one of the tank mix partners in appropriated proportions in carrier, and invert the jar containing the mixture several times.
2. Repeat step 1 until all tank mix ingredients have been added.
3. Observe the mixture for approximately ½ hour. If the mixture balls-up, forms flakes, sludge, gels, oily films or layers, or precipitates, try a water conditioner (e.g. AMS™) or similar conditioner. If this does not eliminate the issue, it is not compatible and the tank mix combination should not be used.

For questions on tank mixing Torpedo with other tank mix partners, contact your local IVM Experts representative.

Q: The Agral 90 label classifies it as “Agricultural”. Can I use in Vegetation Management?

A: Yes. The Pest Control Products Regulations (SOR/2006-124) defines the classes of pest control products into:

- | | |
|----------------|-------------------|
| (a) domestic | (c) restricted |
| (b) commercial | (d) manufacturing |

The “commercial class” is defined as those pest control products that are distributed for use in commercial activities, such as agricultural or industrial.

Registrants can choose to indicate “Commercial” or they can provide more detail to help end users on identifying the commercial activities within the label. Specifying to agricultural or industrial does not limit the product for commercial use – only registered label use patterns do.

Agral 90 is a registered adjuvant on the VP480, Clearview and Sightline labels. It is recommended that Torpedo be used with a non-ionic surfactant. Dow AgroSciences, as a best practice, recommends Agral 90 when tank mixing Torpedo with OcTtain XL or Sightline.

Q: What is the PMRA tank mix policy?

A: The PMRA (Pest Management Regulatory Agency) has established a position related to unlabelled tank mix use of commercial pest control products used in crop production, disease or vegetation management. Based on the position and guidelines established by the PMRA, application of unlabelled tank mixes is permitted provided the commercial pest control

products are registered and applied within their registered use pattern (i.e. application rate, application timing to crops, weed stages, rotational guidelines, number of applications per season, pre-harvest intervals, pest claims, etc.).

Q: What conditions must users of unlabelled tank mixes follow?

- A:**
1. Each tank mix partner is registered for use in Canada.
 2. The most restrictive label and use precautions are followed in compliance with label directions.
 3. Where required specifically by one of the tank mix partners, the tank mix includes an adjuvant at the recommended level. If an adjuvant is not required on the label of any tank mix partner, then no adjuvant may be added to the tank mix.
 4. The application timings of tank mix partners are compatible as related to crop and pest staging in addition to recommended loading, mixing and most complete tank-cleanout directions.
 5. Each tank mix partner is applied in accordance with its registered product label, considering Use Directions, Precautions, Buffer Zones and Resistance Management recommendations. In cases where information on the tank mix partner label differs, the most restrictive directions must be followed.
 6. The tank mix combination is a management tool for increased pest control, assists integrated pest management practice, allows for rotation of herbicide groups, saves time and is of value to the user.

Torpedo™ 

ClearView™
HERBICIDE

Milestone™
HERBICIDE

Sightline™
HERBICIDE TANK-MIX

OcTtain™ XL
HERBICIDE

For more information call the Dow AgroSciences Solutions Center at 1.800.667.3852 or visit IVMExperts.ca



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Solutions for the Growing World



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