



**BREWER
International**

The Natural Leader In Adjuvants

PRODUCT GUIDE: Aquatics



**THE NATURAL LEADER IN
LAND AND WATER CHEMISTRY**

A natural leader in land and water chemistry for over 40 years, **Brewer International** has proudly served its national and regional distributors.

Brewer International provides proven and custom formulations to support your customer needs in aquatics, agriculture, forestry, rights of way, and land management.

Contact us | 1-800-228-1833 | brewerint.com



**THE NATURAL LEADER IN
LAND AND WATER CHEMISTRY**

#BrewerInternational



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*Most products are available in Quart, Gallon, 2.5 Gallon,
15, 30, 55 Gallon Drums, & 250 Gallon Totes



Please call for Pricing and Availability
(772) 562-0555 or (800) 228-1833

AquabupH

AquabupH is a superior water conditioning agent that regulates the pH of the spray solution, sequesters cations in hard water, and contains nitrogen which enhances the uptake of herbicides.

BENEFITS

- Buffers water and regulates pH of the spray solution for improved pesticide functionality.
- Chelates iron and sequesters hard minerals in water, like calcium and magnesium salts.
- Contains nitrogen that enhances uptake of pesticide, particularly herbicide.
- Great wetting agent.
- Can be used in agriculture, aquatics, and industrial systems.
- Can be used with a variety of pesticides, including herbicides, fungicides, and insecticides.



Always Read and Follow the Directions

Brewer 90-10

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Brewer 90-10 is a low foam nonionic wetting and spreading agent which enables increased plant control from enhanced herbicide retention and penetration.

BENEFITS

- A low foam nonionic, activator, and spreader.
- Can be used with a wide variety of terrestrial pesticides, including acaricides, fungicides, insecticides, herbicides, miticides, as well as defoliants and desiccants.
- Can be used in difficult wetting situations, e.g., hard water and in situations where foliage is mature and waxy.
- Can be used in agriculture, citrus, turf, utility rights-of-way, forest site preparation, and in aquatic systems.



BREWER 90-10
LOW FOAM, NONIONIC SPREADER/ACTIVATOR

WARNING
Causes Serious Eye Irritation. Do not take internally.

KEEP OUT OF THE REACH OF CHILDREN

FIRST AID:
If Swallowed: Rinse mouth. Call a doctor if you feel unwell.
If on Skin: Wash area with plenty of soap and water. Remove contaminated clothing. Launder clothing before reuse. If irritation or rash occurs get medical advice.
If in Eyes: Rinse cautiously with water for several minutes. Remove contacts if present. Continue rinsing. If irritation occurs get medical advice.
If Inhaled: Remove individual to fresh air. If affected, get medical attention.

ACTIVE INGREDIENTS:
Polyethylene-polypropylene glycol, alkyl hydroxypropyl oxyethylene, and Isopropanol 90%
Constituents Ineffective as a spray adjuvant 10%
TOTAL 100%

DIRECTIONS FOR USE
MIXING: To prepare for pesticide application fill spray tank one-half full with water and begin agitation. Add pesticide or fertilizer as recommended and then add BREWER 90-10 while continuing agitation. Continue to agitate until tank is full and agitate before and during each application.
RECOMMENDED RATES: For use with acaricides, insecticides, fungicides, miticides (live-stock sprays). Use 1/4 to 1/2 pint (4 to 8 fl. oz.) per 100 gallons of water. For use with herbicides (aquatic & terrestrial), defoliants, desiccants: Use 1/2 to 4 pints per 100 gallons of water. In difficult wetting situations (such as hard water on mature waxy foliage) the higher rate may be required.

Type of Application	Per 100 gallons
Agriculture/Citrus/Turf	1/2 pint to 2 pints
Utility and Highway R.O.W.	1/2 pint to 2 pints
Forest Site Preparation	1 to 4 pints
Aquatic-surface	1/2 pint to 2 pints
Aquatic-submerged	1/2 to 2 pints
Insecticides, Fungicides, Miticides	1/4 to 1/2 pints

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CONDITIONS OF SALE
We warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions.
THERE ARE NO OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.
This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes all risk of any such use.
Surfactants in BREWER 90-10 are exempt from the requirements of tolerance under Title 40 of the CFR.
STORAGE AND DISPOSAL:
Do not store near heat or open flame. Store in original container. Do not reuse empty container. Triple rinse (or equivalent) then dispose of or recycle container through the regulations set by local and state authorities.

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Brewer Defoamer

Brewer's Defoamer is a super concentrated foam buster that reduces foaming problems in the spray tank.

BENEFITS

- Prevents foaming problems from occurring in the spray tank when using pesticides.
- Improves pesticide performance on target pests.



Always Read and Follow the Directions

Cide-Kick

Cide-Kick is a uniquely formulated nonionic wetting agent and penetrant made from citrus limonene. Cide-Kick helps breakdown waxy cuticles on leaf surfaces to allow more effective herbicide uptake and is widely used for vegetation management in aquatics, agriculture, and forestry.

BENEFITS

- Activates pesticide to provide enhanced control.
- Improves pesticide coverage and spread on target pest.
- Compatible with a wide variety of terrestrial and aquatic pesticides, including fungicides, insecticides, and herbicides.
- Can be used in agriculture, citrus, turf, forest site preparation, utility rights-of-way, and roadside vegetation management.
- Can be used to improve control of brush in low volume basal applications.
- Can be used in forest conifer-release applications.



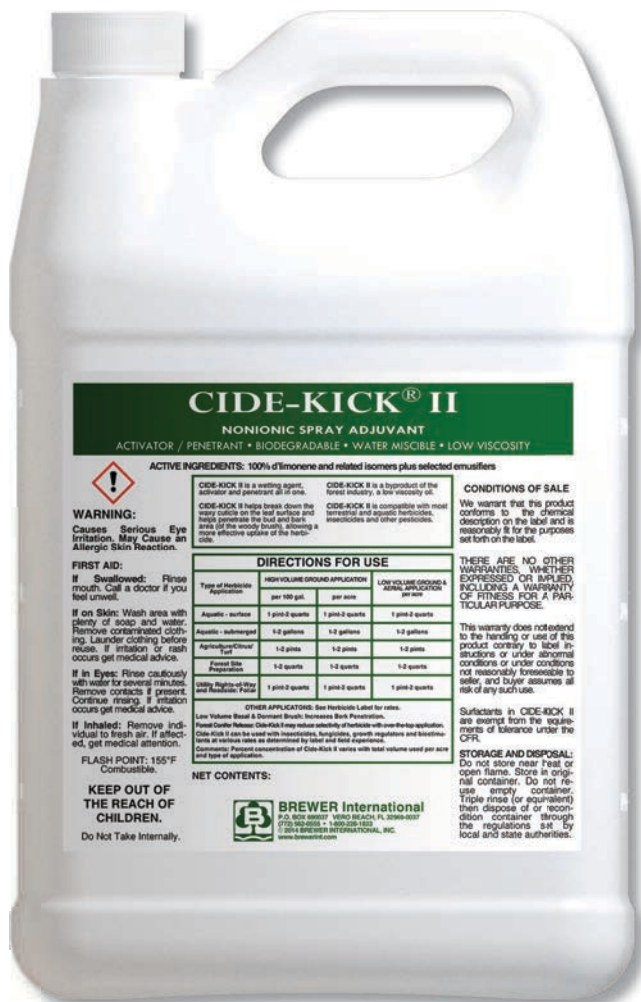
Always Read and Follow the Directions

Cide-Kick II

Cide-Kick II is a uniquely formulated nonionic wetting agent and penetrant made from pine limonene. Cide-Kick II helps breakdown waxy cuticles on leaf surfaces to allow more effective herbicide uptake and is widely used for vegetation management in aquatics, agriculture, and forestry.

BENEFITS

- Activates pesticide to provide enhanced control.
- Improves pesticide coverage and spread on target pest.
- Compatible with a wide variety of terrestrial and aquatic pesticides, including fungicides, insecticides, and herbicides.
- Can be used in agriculture, citrus, turf, forest site preparation, utility rights-of-way, and roadside vegetation management.
- Can be used to improve control of brush in low volume basal applications.

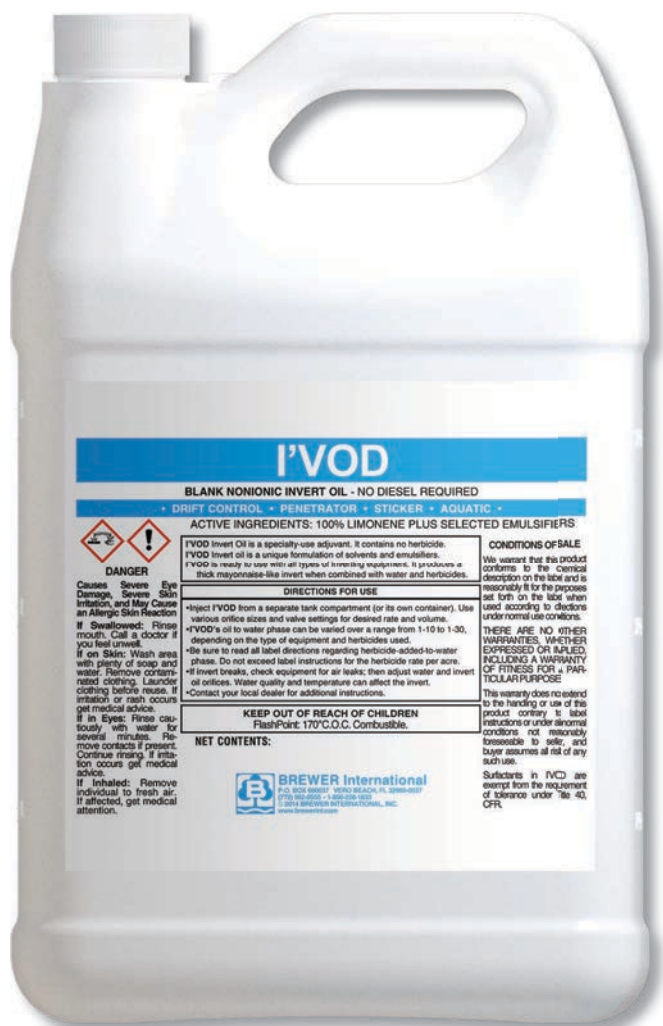


Always Read and Follow the Directions

I'Vod is widely used in the aquatic market as a specialty use adjuvant for drift control. Made from citrus limonene plus emulsifiers, I'Vod can be applied in aquatic systems using all types of inverting equipment.

BENEFITS

- Reduces drift by creating viscous spray droplets.
- Can be mixed with a variety of pesticides.
- Enables the spray mixture to adhere to and penetrate the surface of targeted pests.
- Ideal for management of submerged aquatic vegetation.



Always Read and Follow the Directions

Poly Film-R

Poly Film-R is a premium spreader that is a blend of polymeric terpene methylated seed oil and other ingredients. Poly Film-R leaves a film on the surface of weeds that resists wash-off.

BENEFITS

- Develops a film on targeted pest that enables pesticide spray to adhere, spread, and penetrate pest surfaces.
- Suitable for use in controlling brush, and managing vegetation in rights of way, forests, and in aquatic systems.



Always Read and Follow the Directions

Polyan

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Polyan is a nonionic sinking and drift control agent for herbicides.

BENEFITS

- Reduces spray drift.
- Helps target bottom growing aquatic plants when used with liquid herbicides.



Always Read and Follow the Directions

Silenergy

Silenergy is a nonionic organosilicon wetting and penetrating agent that is effective at low rates.

BENEFITS

- A wetting agent that enables the spray to effectively cover the target.
- Overcomes difficult wetting conditions, e.g., when hard water is used or when targets are mature plants with waxy foliage.
- Enables pesticide to penetrate target pest surface.
- Can be used with a wide variety of pesticides, e.g., acaricides, insecticides, fungicides, miticides, herbicides, as well as defoliants and desiccants.
- Can be used in agriculture, citrus, turf, utility rights-of-way, forest site preparation, and in aquatic systems.



Always Read and Follow the Directions

Silnet 200

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Silnet 200 is a nonionic organosilicon wetting, spreading, and penetrating agent.

BENEFITS

- A wetting agent that enables the spray to effectively cover the target.
- Improves pesticide coverage and spread on target pest.
- Enables pesticide to penetrate target pest surface.
- Can be used in ground and aerial applications of pesticide.



Always Read and Follow the Directions

Sun Control

Sun Control is a unique blend of methylated seed oil, polymers, wetting, and buffering agents for enhanced pesticide penetration.

BENEFITS

- Buffers water and regulates pH of the spray solution for improved functionality.
- Enables pesticide spray to adhere, spread, and wet target pest surfaces.
- Can be used in ground and aerial applications of pesticide.
- Can be used in turf, utility rights-of-way, forestry, and in aquatic systems.



Always Read and Follow the Directions

Sun Wet

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Sun Wet is a nonionic blend of methylated seed oil and emulsifiers that is designed to improve the performance of postemergent herbicides through enhanced wetting and spreading.

BENEFITS

- Enhances the performance of post emergent herbicides.
- Enables pesticide spray to adhere, spread, and wet target pest surfaces.
- Enables pesticide to penetrate target pest surface.
- Can be used in agricultural and aquatic systems.



SUN WET

NONIONIC SPRAY ADJUVANT



WARNING

Causes Serious Eye Irritation. Do not take internally.

KEEP OUT OF THE REACH OF CHILDREN.

FIRST AID:

If Swallowed: Rinse mouth. Call a doctor if you feel unwell.

If on Skin: Wash area with plenty of soap and water. Remove contaminated clothing. Launder clothing before reuse. If irritation or rash occurs get medical advice.

If in Eyes: Rinse cautiously with water for several minutes. Remove contacts if present. Continue rinsing. If irritation occurs get medical advice.

If Inhaled: Remove individual to fresh air. If affected, get medical attention.

ACTIVE INGREDIENTS:

100% Blend of Methylated Seed Oil and Emulsifiers

SUN WET is a quality blend of methylated seed oil and emulsifiers. It is designed to enhance the performance of post emergent herbicides through wetting and penetration.

DO NOT get in eyes, on skin or on clothing. Avoid prolonged and repeated contact. DO NOT swallow.

DIRECTIONS FOR USE

Use SUN WET at 1.5 pts to 2 qts per acre with post emergent herbicide. Higher rates may be necessary for special applications.

For aquatic applications use 1 to 4 qts per 100 gallons.

For agricultural applications use 1 to 2 qts per acre.

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CONDITIONS OF SALE

We warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label.

THERE ARE NO OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes all risk of any such use.

Surfactants in SUN WET are exempt from the requirements of tolerance under the CFR.

STORAGE AND DISPOSAL: Do not store near heat or open flame. Store in original container. Do not reuse empty container. Triple rinse (or equivalent) then dispose of or recollect container through the regulations set by local and state authorities.

Always Read and Follow the Directions

Water Conditioner

Water Conditioner is a spray conditioning agent that buffers and lowers pH slightly and sequesters hard minerals (calcium, magnesium, and iron) preventing them from influencing the spray solution.

BENEFITS

- Can be used as a buffering agent for hard water in spray tanks.



Always Read and Follow the Directions

Brewer F-239

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Brewer F-239 is an all-purpose solvent/degreaser concentrate used for cleaning spray tanks and equipment.

BENEFITS

- Water-soluble.
- Biodegradable.
- Helps neutralize pesticide residue in equipment.
- Non-corrosive.
- Rust-inhibiting.
- No flash point.



BREWER F-239

ALL PURPOSE SOLVENT/DEGREASER CONCENTRATE
BIODEGRADABLE • NON-CORROSIVE • WATER SOLUBLE • RUST-INHIBITING • NO FLASH POINT



DANGER CAUSES SEVERE
EYE DAMAGE AND SKIN
BURNS

FIRST AID

IF IN EYES: Flush cautiously
with water for several minutes.
Remove contact lenses, if
present and easy to do. Con-
tinue rinsing. If eye irritation or
burning persists, get medical
attention.

IF ON SKIN: Wash with plenty
of soap and water. If skin
irritation occurs, get medical
attention.

IF SWALLOWED: Rinse
mouth. Call a doctor if you feel
unwell.

IF INHALED: Remove person
to fresh air and keep comfort-
able for breathing. Call a doctor
if you feel unwell.

CONDITIONS OF SALE

We warrant that this product
conforms to the chemical
description on the label and is
reasonably fit for the purposes
set forth on the label when
used according to directions
under normal use conditions.
THERE ARE NO OTHER
WARRANTIES, WHETHER
EXPRESSED OR IMPLIED,
INCLUDING A WARRANTY
OF FITNESS FOR A PAR-
TICULAR PURPOSE.

USAGE RATES:

Brewer F-239 is a heavy concentrate and very economical to use.
For best results follow these suggested rates:

Steam cleaning, pressure washing, automatic scrubbing and ramp
machine cleaners:
From 2% to 10% solution depending on amount of soil and grime.

Hand spray and wipe • bucket and mop:
From 6% to 20% solution

Extra-heavy cleaning (non-mechanical):
From 15% to 50% solution

For cleaning parts, etc., use agitation for best results.

ALWAYS RINSE WITH CLEAR WATER.
KEEP OUT OF REACH OF CHILDREN.

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**BREWER
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DIRECTIONS FOR USE

Brewer F-239 Cleaner is
excellent for cleaning
storage and spray tanks.
Its concentrated form
helps to neutralize
pesticide residue. It is an
excellent solvent and
degreaser and can be
used to clean agricultural
equipment, vehicles,
machinery buildings,
plus warehouse and
garage floors. It is
suitable for use in steam
cleaning equipment,
pressure washers,
automatic scrubbers and
ramp machines.

Always Read and Follow the Directions

Summary Classification of Brewer International's Adjuvants

Activator – Increases the biological activity of the pesticide beyond that usually obtained without the material added. This class of adjuvant includes:

- *Surfactants* – improves the emulsifying, dispersing, spreading, wetting, or other surface-modifying properties of liquids.
- *Vegetable oils* – enhance weed control in low-humidity and high temperature environments.
- *Crop oils* – function like surfactants. Increase retention on leaf surface.
- *Crop oil concentrates* – aid cuticle penetration, reduce surface tension of spray droplets, and increase retention of spray droplets on leaf surface.
- *Methylated seed oils* – aid cuticle penetration and spray droplet retention during times of harsh environmental conditions, e.g., high temperatures.

Spray modifier – Modifies the spray solution in the tank on the way to the target or on the target itself. This class of adjuvant includes:

- *Spreaders* – increase the surface area of the spray droplet on the target.
- *Stickers* – cause the spray droplets to adhere to the target surface, decrease wash-off during rainfall, and enhance retention of the spray.
- *Foaming agents* – can enhance herbicide action and reduce drift.
- *Thickening agents* – can increase the viscosity of the spray solution and reduce drift.

Utility modifier – Widens the range of conditions under which a given pesticide formulation is useful. This class of adjuvant includes:

- *Antifoam agents* – decrease or prevent foam when the solution is agitated or sprayed.
- *Compatibility agents* – permit or maintain the emulsification of two or more ingredients that would otherwise separate when mixed.
- *Buffering agents* – increase the dispersion and/or solubility of a pesticide in areas of extremely acid or alkaline water.
- *Water conditioning agents* – prevent “water antagonism” brought about when cations dissolved in water interfere with the performance of the pesticide.

	Activator	Spray Modifier	Utility Modifier
<i>AquabupH</i>			
<i>Brewer 90-10</i>			
<i>Brewer Defoamer</i>			
<i>Cide-Kick</i>			
<i>Cide-Kick II</i>			
<i>I'vod</i>			
<i>Poly Film-R</i>			
<i>Polyan</i>			
<i>Silenergy</i>			
<i>Silnet 200</i>			
<i>Sun Control</i>			
<i>Sun Wet</i>			
<i>Water Conditioner</i>			





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