

WHEN YOUR BUSINESS DEPENDS ON IT.™

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WHEN YOUR BUSINESS DEPENDS ON IT.™

There's only one place to go for all your turf, landscape & nursery needs.

At Univar, we carry a full line of Turf & Ornamental products (herbicides, fertilizers, insecticides and fungicides) from all the best brands. With over 65 ProCenters across the country, a fleet of delivery trucks, and an experienced sales team ready to take care of your unique needs, you can get most anything you need when you need it. From our products to our people, Univar has countless T&O resources to help you grow your business.

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Ordering supplies online has never been easier. Every product in our expansive catalog is organized so you can quickly find what you need. With product images, history lists, order updates and links to MSDS and Label documents, The Univar Online Store is the most complete online ordering resource.

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HERBICIDES

Pre-Emergent

Barricade 4 FL, 65 WG - prodiamine

Broadstar - flumioxazin

Bromacil 40/40 (Alligare) - bromacil

Bromacil 80 WP (Alligare) - bromacil

Chlorsulfuron 75

Cruise Control (Alligare) - dimethylamine salt of dicamba

Devrinol - napropamide

Dimension 2EW Herbicide + Defendor (pre/post) - dithiopyr, florasulam

Dimension 2EW Specialty Herbicide - dithiopyr

Dimension Ultra WP - dithiopyr

Dithiopyr 40 WSB, L

Diuron 4L, 80 DF

Ecomazapyr 2 SL – isopropylamine salt of imazapyr

Ecotriclopyr 3 SL - triclopyr

Freehand 1.75G - dimethenamid - P

Gallery 75DF - isoxaben

Gallery SC - isoxaben

Goal 2XL - oxyfluorfen

Hyvar - bromacil, non - selective

Imazapyr 4 SL (Alligare) - imazapyr

Isoxaben 75 WG

Kerb - (pre and post) benzamide

Krovar I - bromacil, diuron

Landmark XP - sulfometuron methyl

Oryzalin (Quali-Pro) - oryzalin

Oryzalin 4

Oust - sulfometuron methyl

Oxadiazon 2G, SC

Oxyfluorfen (Quali-Pro) - oxyfluorfen

Payload - flumioxazin

Pendulum (3.3 EC, 2G, Aguacap) - pendimethalin

Pennant Magnum - s - metolachlor

Princep – simazine

Prodiamine 65 WDG

Ronstar Flo, G - oxadiazon

SFM 75 (Alligare) - sulfometuron methyl

Snapshot - isoxaben, trifluralin

Snapshot - trifluralin

Specticle (Flo, G) - Indaziflam

SureGuard SC – flumioxazin

Surflan AS - oryzalin

T/I 2.5 G - Trifluralin, Isoxaben

Team - benfluralin, trifluralin

Transline - clopyralid

Treflan - triflualin

XL 2G – benefin, oryzalin

Selective Postemergent

2,4-D Amine

2-D - triclopyr, clopyralid

3-D - dimethylamine salt of 2, 4-D,dix

4 Speed XT - 2,4-D, triclopyr, Dicamba, pyraflufenethyl

Acclaim Extra (cool season turf) - fenoxaprop-p-ethyl NOT IN CA

Atra – 5 – atrazine

Avenue South - penoxsulam, sulfentrazone, 2,4 - D, Dicamba

Blade - metsulfuron methyl

Capstone (VM, pre/post) – triclopyr (amine version), triisopropanolammonium salt (aminopyralid)

Celsius WG - Thiencarbazone-methyl, Iodosulfuron-methyl-sodium, dicamba

Certainty - sulfosulfuron

Chlorsulfuron 75

Clopyralid 3 (Alligare) - clopyralid

Confront Specialty Herbicide - triclopyr, clopyralid

Cool Power - mcpa, trichlopyr, dicamba

Defendor Herbicide - florasulam

Dicamba 4

Dismiss CA - sulfentrazone

Dissolve - 2,4-D, mecoprop

Drive 75DF - quinclorac

Escalade 2 - 2,4-D, Fluroxypyr, Dicamba

Finale - Glufosinate ammonium

Garlon - trichlopyr

Goal 2XL - oxyfluorfen

Horsepower - MCPA, triclopyr, dicamba

Katana – flazasulfuron

Laramie 25 DF - rimsulfuron

Lontrel - clopyralid

Milestone (VM, pre/post) – triisopropanolammonium salt (aminopyralid)

Millenium Ultra - 2,4-D, clopyralid, dicamba

Monument 75 wg - trifloxysulfuron sodium

MSMA 6 Plus - Golf Course Only

Opensite (VM, pre-post) – metsulfuron, potassium salt (aminopyralid)

Power Zone - carfentrazone ethyl, mcpa, mecoprop, dicamba

Prograss EC - ethofumesate

Q4 Plus - guinclorac, sulfentrazone, 2,4-D, Dicamba

Quik Silver - carfentrazone ethyl

Quinclorac 1.5L, 75 DF

Rimsulfuron 25 DF

Revolver - foramsulfuron

Sapphire – penoxsulam

Sedgehammer Plus - halosulfuron-methyl

SedgeMaster - halosulfuron-methyl

Sencor 75 - Metribuzin



SpeedZone Broadlead – carfentrazone ethyl, mecoprop, dicamba acid, 2,4-D **SpeedZone Southern** – carfentrazone ethyl, mecoprop, dicamba, 2,4-D

(lo 49% 2,4-0)

Surge - sulfentrazone, 2,4-D, MCPP, dicamba

Tenacity – mesotrione

Tordon 22K - picloram (safe on grasses)

Transline – clopyralid

Triamine Jet Spray - 2,4-D, MCPP, dichlorprop

Tribute Total - thiencarbazone-methyl, foramsulfuron, halosulfuron-methyl

Trimec Classic – 2,4-D, MCPP, dicamba

Triplet Sensitive - 2,4-D, MCPP, dicamba

Turflon Ester – trichlopyr

T-Zone – trilopyr, sulfentrazone, 2,4-D, dicamba

Vastlan (VM, nonvolatile) - triclopyr

Non-Selective Postemergent

2-D - Triclopyr, Clopyralid

3-D – Dimethylamine Salt of 2, 4-D, Dimethylamine Salt of (+)-R-2-propionic acid, Dimethylamine Salt of Dicamba

Accord XRT II (VM) – glyphosate (DMA salt)

Aquaneat - glyphosate

Boulder 6.3 - triclopyr BEE (low VOC)

Diquat - diquat

Drvphosate 75 SG - glvphosate

Garlon 3A - triclopyr

Garlon 4 Ultra - triclopyr

Glyphosate 4 Plus (Quali-Pro) - glyphosate

Glyphosate 5.4

Glyphosate Plus

Montar – cacodylic acid

Pathfinder 2 (VM) - triclopyr (basal bark/cut stump)

Postemergent

Quik-Fire – ammoniated soap of fatty acid

Ranger Pro - 41% glyphosate

Razor Pro - glyphosate

Reward - diquat

Rodeo - glyphosate, aquatic weed control

Roundup Pro Concentrate - 50% glyphosate

Roundup PROMAX - glyphosate

Roundup QuikPro – glyphosate, diquat

Scythe - perlargonic acid

SedgeMaster - Halosulfuron-methyl

Specticle Total – Indaziflam, Diquat dibromide, glyphosate isopropylamine salt

Tahoe 4 E – triclopyr

Triclopyr 4 EC (Quali-Pro) - triclopyr

Vastian (vm, nonvolatile) - triclopyr

Grasses & Sedges

Arrow 2E - clethodim

Envoy - clethodim

Fusilade II – fluazifop-butyl

Kerb SC - pronamide

Ornamec w/ Aquasorb - folazifop-p-butyl

Poast - sethoxydim

ProSedge 2 - sulfonylurea

Vastian (vm, nonvaltile) - triclpyr

Aquatic Weed and Algae Control

2,4-D Amine

Aquaneat - glyphosate

Aquathol – dipotassium endothall, herbicide

Argos – copper ethanolamine complex

Captain - liquid chelated copper, algaecide

Copper Sulphate - copper sulphate

Clipper - flumioxazin

Cutrine – chelated elemental copper, algaecide

Diguat

Ecomazapyr 2SL – isopropylcamine salt of imazapyr

Fluridone

Garlon 3A - triclopyr

Greenclean Pro – algaecide plus

Greenshield CA - algaecide and disinfectant

Imazapyr 4 SL

Reward - diquat

Rodeo - glyphosate

Roundup Custom - glyphosate

Triclopyr 3

Vastlan (VM, nonvolatile) – triclopyr

PLANT GROWTH REGULATORS

Atrimmec - atrinal

B-NIne - daminozide

Bonzi - substituted triazole

Cycocel - chlormequat

Ethephon 2SL

Florel - ethephon

Maintain CF125 - methyclorohydroxyfluorene

Pac-Low - Paclobutrazol

Primo Maxx - trinexapac-ethyl

ProGibb T&O - gibberellic acid

Proxy - ethephon

Retard - maleic hydrazide

Shortstop 2SC – paclobutrazole B-Nine-daminozide

Sumagic – uniconazole p

T Nex 1AQ (Quali-Pro) – trinexapac-ethyl

Trimmit 2SC – paclobutrazol



INSECTICIDES

General Use Turf & Ornamental Insecticides/Miticides

435 - Oil 98.8%

Abamectin .15 EC

Ace-Jet - Acephate

Acelepryn – chlorantraniliprole

Acephate 90 - acephate

Adept – diflubenzuron, IGR

Advion - indoxacarb

Allectus SC - bifenthrin/imidacloprid

Altus - flupyradifurone

Abamectin .15 EC

Arena 50 WDG 025G - clothianidin

Aria - flonicamid

Avid – abamectin

AzaSol - azadirachtin

Azatrol EC - azadirachtin, IGR

Baseline - bifenthrin (oil base, high %)

Bifenthrin Nursery 7.9 - bifenthrin

Chlorpyrifos 4E

Citation - cyromazine

Conserve SC - spinosad

CoreTect – imidacloprid

Coretect - Imidacloprid + Fertilizer NOT IN CA temporarily

DeltaDust - deltamethrin

DeltaGuard GC - deltamethrin

Dimethoate

Dipel - Bacillus thuringiensis var. kurstaki

Discuss - imidacloprid

Distance IGR - pyriproxyfen

DuraGuard ME – chlorpyrifos

Dursban 50W – chlorpyrifos

Dylox (420SL, 6.2G) - Trichlorfon NOT IN CA

Eco1 - linseed oil, thyme oil, peppermint oil

Eco-Mite - rosemary, rosemary oil, peppermint, cottonseed oil

Endeavor - pymetrozine

Flagship - thiamethoxam

Floramite - bifenazate

Forbid 4F - Spiromesifen

Gnatrol WDG - bacillus thuringiensis

Hexagon - hexythiazox

Ima-Jet - imidacloprid

Ima-Jet 10 - imidacloprid

Imidacloprid 2F, 75WSP 0.5G - imidacloprid

ImidiPro (PBI Gordon) - imidacloprid

Indemnify (Nematicide) – fluopyram

Intrepid 2F - methoxyfenozide (IGR, caterpillar control)

Judo - spiromesifen

Lambda GC-0

Mainspring GNL - Cyantraniliprole

MasterLine® B-Maxx - bifenthrin

MatchPoint - spinosad (lignin formulation for turf)

Mavrik - tau-fluvalinate

Meridian 0.33G, 25WG - Thiamethoxam

Merit G, 2F, WP, WSP - imidacloprid

Minx - abamectin (warning)

Minx 2 – abamectin (low VOC, caution)

M-Pede - potassium salts of fatty acids

Nemacur 10%G - fenamiphos

Nimitz Pro G - Fluensulfone (nematicide)

Onyx Pro - bifenthrin (oil base, high %)

Orthene TTO - acephate

Provaunt - Indoxacarb

Pylon – pyrrole/chlorfenapyr

Safari - dinotefuran

Sanmite - pyridaben

Scimitar GC - microencapsulated lamdacyhalothrin

Sevin SL - Carbaryl

Shuttle – acequinocyl

Siesta Fire Ant Bait - metaflumizone

Storgard Insect Monitoring Systems - pheromones & baits

Sultan – cyflumetofen (miticide)

Suspend - deltamethrin

Talstar Pro, Nursery - bifenthrin

Talstar Xtra Verge – zeta cypermethrin, bifenthrin

Tame - fenpropathrin

Taurus G Trio - (RUP-Fipronil)

Tempo Ultra (SC, WP, WSP) - cyfluthrin

Tetrasan - etoxazole

Todal – Abamectin (insecticide/nematicide)

Topchoice - fipronil ONLY IN COACHELLA VALLEY

Tree-Age G4 - emamectin

Tree-Age - emamectin

Tristar – acetamiprid

Zylam – dinotefuran

Insect Bait Products

Advance - abamectin

Advion - indoxacarb

Amdro - hydramethylnon

Award Fire Ant Bait - fenoxycarb

Distance Fire Ant Bait - pyreproxyfen

Extinguish Fire Ant Bait – methoprene

Maxforce Granular Insect Bait - hydramethylnon

Trimedlure Baskets - use own attractant



Fly Control Products

Aerosols

CDC Mosquito Light Traps

Dispensers

Genesis DFM 32x Micro - Cleansing

Hanging Traps and Lure

Maxforce Fly Bait

Musca - Cide Bait Station

Quikstrike

Stimukil Fly Bait

Yellow Jacket Control

Seabright traps and bait

Sterling traps and attractant

Woodstream Traps & Bait

Organics

Azatrol - azadirachtin

Botanigard – entomopathic fungi

Cinnamite - cinnamaldehyde

Conserve SC – produced by fermentation processes

Dipel - bacteria for caterpiillars

Distance IGR - pyriproxyfen

Dormant Oil 415 Spray

Gnatrol - bti, soil drench

Millenium - nematodes

M-Pede - insecticidal soap

Ornazin - azadirachtin

Pyreth-It - pyrethrum

Saf-T-Side - light horticultural mineral spray oil

Sun Spray Ultra Fine Oil

Ultra Pure Oil

Vector Control Products

Adulticides

Eco Exempt EC, IC2 - rosemary, peppermint, wintergreen,

vanillin, mineral oil

Fyfanon ULV - malathion

MasterLine® Agua Kontrol

MasterLine® Kontrol 2 - 2, 4-4, 30-30, 31-67

M-Pede – insecticidal soap

Natural Py: Pyronyl - pyrethrin, piperonyl butoxide #525, #3610A,

Crop Spray, 303 EC Pyrocide 7192, 5-25 - pyrethrin & pbo

Barrier Treatments

Cv-Kick CS

Demand CS

MasterLine® Bifenthrin 7.9

Mavrik

Microcare CS

Suspend SC

Talstar Pro

Tempo Ultra SC

Larvicides

Altosid – methoprene growth regulator 30 day briquets, pellets,

WSP pellets, XR-Briquets, XR-Ingots, XRG, SBG SR-20

Bactimos Briquets - bti

Teknar HPD - bti

FUNGICIDES & BACTERICIDIN

26/36 - iprodione thiophanate-methyl

3336 EG - thiophanate-methyl

Agrimycin – agrimycin

Alude - mono and di-potassium salts of phosphorus acid

Appear - Potassium Phosphite

Arbor OTC - oxytetracycline

Arena 50 WDG, 025G - clothianidin

Armada 50 WDG - Trifloxystrobin, Triadimefon

Banner Maxx - propiconazole

Banol - Propamocarb hydrochloride

Bayleton (Flo, 50) - Triadimefon

Bayleton – triadimefon

Blocker 4F - pcnb

Briskway - Azoxystrobin, Difenoconazole

Camelot – copper salts of fatty and rosin acids

Chipco 26019 Flo or 26GT - Iprodione

Chipco 26GT - iprodione

Chipco Aliette – aluminum tris

Chipco Signature – aluminum tris (with dye)

Chlorothalonil 720 SFT, DF

Cleary 3336 - thiophanate-methyl

Compass 50wg - Trifloxystrobin

Concert II - Chlorothalonil, Propiconazole

Copper Count N – liquid 8% complexed copper

Curalan - vinclozolin

Daconil Action - Acibenzolar-S-methyl, Chlorothalonil

Daconil Weather Stik - chlorothalonil

Decree - fenhexamid

Dithane 75DF Rainshield - mancozeb

Eagle 20EW - propanenitrile

Eco1 - linseed oil, thyme oil, peppermint oil

Eco PM - thyme, clove oil

Emblem/Spirato GHN - fludioxonil

Emerald - boscalid

Empress Intrinsic – pyraclostrobin

Enclave - Chlorothalonil, Iprodione, Thiophanate methyl, Tebuconazole

Exteris Stressgard - Trifloxystrobin, Fluopryam NOT IN CA



Fame SC - Fluoxastrobin

Fiata Stressgard - Mono- di-potassium salts of phosphorous acid

Fore 80WP Rainshield

Fosetyl-Al 80 WDG - aluminum tris

Fungo Flo - thiophanate-methyl

Gnatrol WDG – bacillus thuringiensis

Headway - azoxystrobin, propiconazole

Heritage - azoxystrobin

Honor Intrinsic – boscalid + pyraclostrobin (turf)

Insignia – pyraclostrobin

Instrata – Chlorothalonil, Fludioxonil, Propiconazole

Interface Stressgard - Iprodione, Trifloxystrobin

Ipro 2SE - iprodione

Kabuto - isofetamid

Kaligreen - organic, potassium bicarbonate

Kocide - copper hydroxide

KDP-Hydroxide - Bactericide / fungicide

Lexicon – fluxapyroxad + pyraclostrobin

Medallion SC, WDG - Fludioxonil

Mefenoxam 2AQ

Micora - Mandipropamid

Minx 2 - abamectin

Mirage Stressgard - Tebuconazole

Myclobutanil 20EW T&O

Orkestra Intrinsic – carboxamide, strobilurin

Orvego - ametoctradin + dimethomorph

Pageant - boscalid + pyraclostrobin (ornamentals)

Palladium - Cyprodinil, Fludioxonil

PhosphoJet - phosphorous acid

Phyton 27 New Dimension - CU S pentahydrate

Propiconazole 14.3

Propizol - propiconazole

Prostar WG - Flutolanil

Prostar - flutolanil

Protect - manganese & zinc

Renown - azoxystrobin, Chlorothalonil

Rhapsody – bacillus subtillis (pseudomonas)

RootShield G - trichoderma harzianum

Rubigan - fenarimol

Safari - dinotefuran

Secure - Fluazinam

Segovis – Oxathiapiprolin

Segway - cyazofamid

Signature Xtra - fosetyl-Al NOT IN CA

Spectro 90 – chlorothalonil, thiophanate methyl

Spotrete F - thiram

Stature DM, SC - dimethomorph

Strobe 2L, 50 WG - Pro-azoxystrobin propiconazole

Subdue Maxx - mefanoxam

Sulfur 80 WDG - organic

Sulphur 90W - micronixed, wettable sulfur

Tartan Stressgard – trifloxystrobin, Triadimefon

Tebuconazole 3.6F

Tekken - isofetamid, tebuconazole

Terrachlor - pcnb

Terracyte - sod. carb. peroxyhydroxide

TM 4.5 (Quali-Pro) – thiophanate methyl

Tebuconazole 3.6F

Trinity - triticonazole

Tristar - acetamiprid

Triton 70 WDG - triticonazole

Velista - Penthiopyrad

Xzemplar – fluxapyroxad

Zerotol – hydrogen dioxide

Green and Organic Products

Herbicides

Avenger - citric oil based herbicide, OMRI

Fiesta – iron HEDTA non-selective herbicide, Green

Suppress - natural fatty acid non-selective herbicide, OMRI

Scythe - fatty acids non-selective herbicide, Green

Insecticides

Sulfur 80 WDG - insecticide/fungicide/insecticide, OMRI

Acelepryn - insecticide, green

Azatrol - insecticide/fungicide plant oil based, OMRI

AzaSol - water based insecticide, 25b exempt and OMRI

Eco-1 – essential plant oils insecticide/miticide/fungicide, OMRI

M-Pede - insecticidal soap, OMRI

Eco Via – food grade plant oil insecticide, 25b exempt

Essentria - line of essential plant oil based insecticide, 25b exempt

IC 3 - essential oils insecticide, 25b exempt

Nature-Cide – essential plant oil insecticide, 25b exempt

DiPel Pro - BTI larvacide/insecticide, OMRI

Ultrapure Oil – mineral oil insecticide/ fungicide, Green

Saf-T-Side - oil based insecticide/fungicide, OMRI

PyGanic - oil based botanical insecticide, OMRI

Conserve - spinosad/insecticide, green

Gnatrol – BTI, larvacide/insecticide

Altosid - IGR, green

Fertilizers

Black Gypsum DG – soil enhancer for salt correction, root growth and nutrient uptake, OMRI

Humic DG - soil enhancer for root growth and nutrient uptake, OMRI

Par 4 - organic base fertilizer, OMRI



CalSul Gypsum – plant food and soil conditioner, green

PelLime - dolomitic/calcitic lime soil conditioner, green

JH Biotech line -

5-1-1 Fish based, OMRI

Westbridge line -

BioLink & Trigger - OMRI and certified organic

GroPower line

GrowMore line

Fungicides

Sulfur 80 WDG - insecticide/fungicide/insecticide, OMRI

FERTILIZERS & NUTRIENTS

Andersons Brand

BioPro Line

Grow More Brand

Grow Power Brand

J.R. Simplot - Apex and Best Brands

Lebanon Brand

MnJet Fe

Monterey Chemical Brands

Nutrite

Palm-Jet Mg 1-2-2

Plant Health Care - bacteria and mycorrihizal fungi

Roots Inc - all brands

Tri C Brand

Yara Viking Ship Brand

EQUIPMENT

Application

Sprayers/Power Rigs

Mar-Len Supply

50 gallon, 100 gallon or larger aluminum or poly plastic tanks

Briggs and Stratton or Honda engines

Diamond pumps – triplex piston driven

Hannay hose reels

Belt driven or direct linkage from pump and motor

Cart sprayers - 15 or 20 gallon

GNC Sprayers

50 or 100 gallon tanks

Poly tanks

Hypro pumps

Hannay hose reels

Backpack Sprayers

Birchmeier

B&G Equipment Company

SP Systems - battery powered or hand pumped

Green Garde/Hudson

MasterLine® 4 gallon backpack

Solo

Spray Guns and Gunjets

Green Guarde/Hudson – JD-9C, flooding nozzles, root injection attachments

Mar-Len Supply - GES-505

MasterLine® MG - 1 Gunjet

Spraying Systems – brass or aluminum

Hand Held Sprayers

Stainless Steel:

B & G Equipment Co. 1, 2, or 3 gallon

Hudson/Green Guard

Tree Injection

F Series Tree IV line

Quik-Jet Air Kit

Quik-Jet Kit

Tree IV

All Parts/Accessories

Thermal Foggers

Curtis Dyna-Fog

Electric

Piston engines

Pulse jet engine

London Foggers

ULV Applicators

Curtis Dyna-Fog

Wind Driven (Cold Fog)

Air Driven (Cold Fog)

Electric Cold Fog

Pulse-Jet Thermal Mist

Piston Engine ULV (Cold Fog)

Truck Mount ULV

London Foggers

Hydraulic Sprayers

Stainless pump – up sprayers

Poly pump - up sprayers

Poly dual - action trigger sprayers

360 GPH spray rig





Spreaders: Granule

Spyker

Belly Speaders #75 Electric/Mounted #220 Pull Behind #299 Push Behind #288. #46 Handy Green Spreader SP Systems Curtis Dyna - Fog



MISCELLANEOUS

Rodent Control

Rats and Mice

A complete line of rodent control products is available from the following manufacturers:

Advantage Products

Bell Laboratories

Catchmaster (AP&G)

JT Eaton

Kness

Liphatech

MasterLine®

Syngenta

Victor Woodstream

VM Products

Gophers, Ground Squirrels, Voles and Moles

Answer for Pocket Gophers - anticoagulant

Contrac - bromadialone

Fumitoxin – aluminum phosphide fumigant

Mole Med - repellent

Phostoxin – aluminum phosphide fumigant

Rozol Ground Squirrel Bait – chlorophacinone

Rozol Pocket Gopher Bait - anticoagulant

Talprid - rubber earthworms, bromethalin

Wilco Gopher - type 1, type 2 and AG

ZP Rodent Bait Ag - zinc phosphide

Traps and Bait Stations

Attaching & anchoring devices for bait stations Enclosed cover & tunnels for glue traps Glue traps & bulk glue **Gopher Getter Bait Applicator** Havahart Traps - live trap cages

Kage - All-live trap cages

Labels for bait stations

Live traps



Rodenticide bait stations - tamper & non-tamper resistant stations

Snap traps

Victor Gopher Trap – Easy-Set wire trap

Victor Mole Trap - Out O' Sight clamp style

Victor Mole Trap - plunger style

Other Vertebrate Pests

Birds – a full line of bird control materials from Bird Barrier, Inc., includes netting, wires, decoys, metal & plastic strips, all installation materials

Snake Guard - snake glue trap

Animal Repellents

Deer Scram

Havahart Mole Repellent

Havahart Squirrel Repellent

Hot Sauce

Mole Scram

Rabbit Scram

Ropel - Pet Animal Repellent - bittering agent, deer, beavers, woodpeckers

Grass Seed

Lebanon Trifecta Perennial Rye

Lebanon Winning Colors Tall Fescue

Pennington Summer and Winter Seed

Seed Research Brand Grass Seed

Snail and Slug Control

Deadline (bullets, MPs, T&0) – metaldehyde

Durham (3.5 and 7.5%) - metaldehyde

Measurol - methiocarb

Sluggo - iron phosphate

Adjuvants & Surfactants

Audible 80

Audible 90

AquaT - pond bacteria (restore pond)

Back Field

Break - Thru Surfactant

Can - Hance - mso

CMR Silicone Surfactant

Completion

Convey

GelTrack - keep dust down

Hydretain - soil moisture retention

K-90 - non-ionic adjuvant, spreader, activator

Latron B - 1956 - spreader, sticker

Magnify Activator – ammonium salts, alkyl polyglucoside,

dimethylpolysiloxane, activator/penetrator, terrestrial & aquatic

Motion

MSO Gold-100 - Methylated Seed oil

Nalco - Trol-drift control for use with pesticides other

than Roundup or Sevin



Na-X Salt Flush - soil conditioner

No Foam A - non-ionic spreader, activator

No Foam B - spreader, activator, buffer

PAS-800 - Non - Ionic Surfactant, Acidifier

Pentra Bark - bark penetrating surfactant

Reverse

Rocket - monobutyl ether, speader/activator/enhancer, terrestrial & aquatic use

Sea-Xtra – wetting agent and nutrients

Scrimmage

Sil-Fact - Organosilicone for Bark Banding

Transfilm – anti-transpirant

Tripleline Foam Away - defoamer, non-ionic

Umbrella – alkylarylpolyethoxyethanois, spreader, sticker, extender

Yardage

Yuccah - wetting agent

Dyes and Colorants

Aquashade Aquatic Dye

Blazon Blue Dye

Green-Dura

Green Lawnger

Greenzit

Mark-It - Blue

Monterev H20 Blue - water shade colorant

Turf Mark Blue

Cleaners, Spill Control, Deodorizers

Cleary Tank Cleaner

Commando Spill Kit

Earthcare - odor remover in bags or granules

Epoleon - deodorizer

E-Z Sorb – absorbent for chemical spills

Green-Shield CA – disinfectant and algaecide

Kalo Tank Cleaner

Nokomis 3 - tank and equipment cleaner

Nutra - Sol Tank Cleaner

Odor Hunter

Onside Kick

Play Off

Physan - disinfectant and algaecide

Soak Up - absorbent for chemical spills

Univar carries a complete line of all necessary equipment such as:

- Bee and wasp suits, gloves, helmets and hoods
- Disposable coveralls
- Emergency spill kits
- Eye protection safety glasses, goggles, face shields
- · Eve wash bottles
- First aid kits & Flashlights

- · Gloves & Hand cleaners
- Head & Rain gear
- Respirators and dust masks fit test kits, replacement parts
- Signs
 - Storage units



ADJUVANT GUIDE

Adjuvant Type	Exacto® Inc Products	Product Features	Compares To
Spreader-Sticker (NIS)	Audible™ 80 Audible™ 90	Both Audible™ 80 and 90 are formulated with defoamer and fulfill active label requirements for 80 or 90% surfactant load Lower use rates Humectant qualities	NO FOAM A Surf-Ac® 820 Chemsurf™ 80 or 90 Lesco-Wet™ Plus
Organosilicone (OSS) Spreader-Sticker (NIS)	Scrimmage [™]	Super spreader characteristics Lower use rates Improves fast penetration and rain fastness Not for use in over 90° temperatures	Silkin®
Modified Vegetable Oil Concentrate	Motion™	Modified seed oil for use with herbicides like Grass Getter® or Drive® (quinclorac) Rapid penetration Slows drying Good in injection irrigation	Herbicide Helper MSO
Water Conditioner	Completion™	Prevents active ingredient breakdown in hard or mineral saturated water Acidifies mixing water Contains AMS	Speedway [®] Conform [™]
Sticker	Back Field™	Improves adhesion and duration of pesticide applications	Nu-Film®
Defoam and Antifoam	Reverse™	Prevents foaming while mixing and knocks down foam during application Does not affect active ingredient effectiveness	Recede™
Turf and Divot Sand Colorant	Green-Dura	May be applied to growing or non-growing grass Improves color Tints divot repair sand	Green Lawnger®
Tank and Equipment Cleaner	Onside Kick™	Ammoniated liquid cleaner for all application equipment Helps to prevent cross contamination	LESCOSol™
Multi-functional NIS, Penetrant, Acidifier, Drift Reduction and Deposition	Yardage™	Lowers pH to condition mixing water Lecithin drift control limits driftable fines Improves penetration through waxy cuticles Efficient spreader-wetter for increased uniform coverage	LI 700 [®] Magnify
Specialty Nonionic Surfactant (NIS)	Convey	Spreader-sticker that does not strip protective leaf waxes Use with PGR's and antibiotics like streptomycin	Regulaid [®]
Scent Masking	Play Off™	Wintergreen scented odor masking agent for all tank mixes. Mixes well with most tank solutions Does not affect pesticide efficacy Disguises unpleasant pesticide application odors	Odorscent

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CALIBRATIONS

Calculating the Percent Active in Dilutions

Sometimes it is necessary to know what percentage of active ingredient is in a dilution. To calculate this you need to know the volume of the spray tank, the weight of active ingredient per gallon of formulation, the weight of a gallon of water, and the number of ounces in a gallon. The weight of water is constant—approximately 8.34 pounds.

Assume the spray tank measures 50 gallons. You are trying to determine the percent active in a dilution containing 30 ounces of Malathion 57E in 50 gallons of water. Malathion 57E contains 5 pounds of active ingredient per gallon.

1. Find how much active ingredient by dividing 30 ounces into 1 gallon (128 oz) and multiplying by 5 lbs./gallon.

2. Find the percentage of active ingredient by dividing 1.17 lbs. by 50 gallons of water and then divide by the weight of water (8.34 lbs./gal.)

Therefore, this dilution of 30 ounces of Malathion 57E in 50 gallons of water will contain 0.28% Malathion.

Calculating a Percent Solution with a Liquid Formulation

To prepare a percent solution using liquid formulations, you need to know the volume of the spray tank, the weight of active ingredients per gallon of formulation and the weight of a gallon of water. The weight of water is a constant—approximately 8.34 pounds. Assume you have measured the volume of the spray tank and find that it holds 100 gallons of water. You are given a recommendation to apply a 1% solution of glyphosate for control of aquatic weeds using a high pressure sprayer with a handheld spray nozzle. The formulation of glyphosate that you are to use contains 5.4 pounds of active ingredient per gallon.

1. Find the total weight of the liquid in the filled tank by multiplying 100 gallons by 8.34 pounds per gallon.

100 gal. X 8.34 lb. / gal. = 834 lbs.

2. Multiply this weight by 0.01 (1%) to determine the weight of active ingredient required to mix a 1% solution.

 $834 \times 0.01 = 8.34 \text{ lb.}$

3. Divide the required weight of active ingredient by the weight of active ingredient in the formulation. The result is the number of gallons of liquid formulation that should be added to 100 gallons of water to achieve a 1% solution.

In this example, one tank of liquid should contain 1.54 gallons of glyphosate formulation. The total volume of water combined with the glyphosate formulation should equal 100 gallons, the capacity of the tank. You would therefore use 98.46 gallons of water and 1.54 gallons of formulated glyphosate.

Useful Conversion Factors for Calibrations:

Standa Length	Measures	Metric Conversions				
1 ft	=	12 in	1 in	=		25.4 mm
				=		2.54 cm
1 yd	=	3 ft	1 ft	=		304.8 mm
				=		30.48 cm
1 mi	=	5,280 ft	1 yd	=		914.4 mm
				=		91.44 cm
				=		0.914 m
			1 mi	=		1,609 m
				=		1.61 km
			1 mm	=		0.03937 in
			1 cm	=		0.394 in
				=		0.0328 ft
			1 m	=		39.37 in
				=		3.281 ft
			1 km	=		3,281 ft
				=		0.6214 mi
Area:						
1 sq in	=	0.007 sq ft	1 sq in		=	645 sq cm
1 sq ft	=	: 144 sq in	1 sq ft		=	929 sq cm
	=	0.000023 sq ac				
1 sq yd	=	: 1,296 sq in	1 sq yo	d	=	8,361 sq cm
	=	9 sq ft			=	0.8361 sq m
1 ac	=	43,560 sq ft	1 ac		=	4,050 sq m
	=	4,840 sq yd			=	0.405 ha
			1 sq c	sq cm		0.155 sq in
					=	1 sq m
					=	1,550 sq in
					=	10.76 sq ft
			1 ha		=	107,600 sq ft

= 2.47 ac

Standard Measures

Volume:

1 tsp = 0.17 floz

1 tbs = 3 tsp

1 floz = 2 tbs

= 6 tsp

1 cup = 8 floz

= 16 tbs

1 pt = 2 cups

= 16 fl oz

1 qt = 2 pt

= 32 fl oz

Metric Conversions

1 fl oz = 29.5 ml

= 0.02951 L

1 pint = 437 ml

= 0.437 L

1 qt = 945 ml

= 0.945 L

 $1 \, \text{gal} = 3785 \, \text{ml}$

= 3.785 L

1 L = 33.8 fl oz

= 2.112 pt

= 10.57 gt

= 231 cu in

= 0.264 gal

 $1 \, \text{ml} = 0.033 \, \text{fl oz}$

Weight:

1 oz = 0.0625 lb

= 16 oz 1 lh

1 ton = 2000 lb

1 gal water = 8.34 lb

Abbreviations:

ac = acre

fl oz = fluid ounce

ft = foot/feet

gal = gallon

sq = square

in = inch

lb = pound

mi = mile

oz = ounce

pt = pint

qt = quart

tbs = tablespoon

tsp = teaspoon

yd = yard

1 oz = 28.35 q

1 lb $= 454 \, q$

= 0.4536 kg

 $= 907 \, \text{kg}$ 1 ton

1 gal water = 3.786 kg

= 0.035 oz1 a

= 35.27 oz1 ka

= 2.205 lb

cm = centimeter

q = qram

ha = hectare

(1 h = 10,000 sqm)

kg = kilogram

km = kilometer

L = liter

m = meter

ml = milliliter

mm = millimeter



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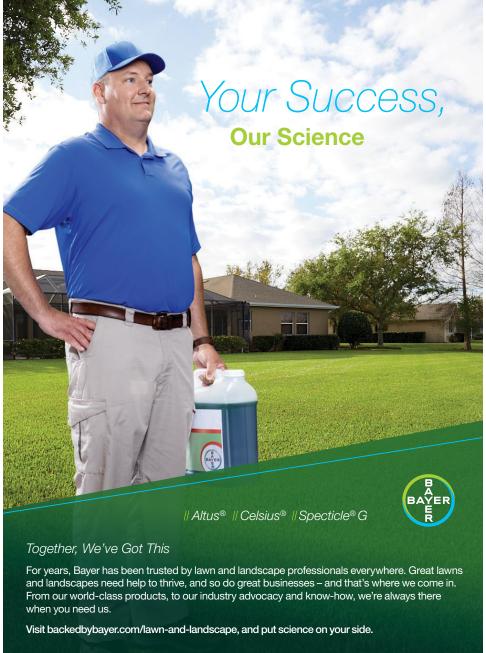
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Notes Control of the	



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