

Gear Repair & Care Guide



For Scuba Diving & Watersports

MASK ANTI-FOGS AND CLEANERS

MASK ANTI-FOGS

McNett[®] formulas are safe for all glass and plastic lenses!

Fogged-up







Masks treated with **Sea Gold™**, **Sea Drops™ & Sea Quick™** stay fog free!



Which Anti-fog is Best For You?

Sea Gold Anti Fog Gel Rated No1 in Scuba Diving's most recent tests!

Highly concentrated clear gel for fog free vision dive after dive. Great for multi-dive days and cold water diving.



Sea Drops Anti⁻Fog Liquid

The world's most popular dive mask anti-fog. Ideal for tropical climates.



Sea Quick Anti-Fog Spray

Blow fog away with a fast and easy pump spray anti-fog that lasts and lasts. Perfect for beginners!

Clean new mask lenses with Sea Buff™ mask pre-cleaner. This removes the silicone residue leeched from the mask skirt during manufacturing, and enables antifogs to work more effectively. Regular cleaning with Sea Buff eliminates dirt, algae, mold and other contaminants that interfere with anti-fog performance.

STEP 1: Apply a small amount of Sea Buff to inside and outside of lens. Rub aggressively, rinse and repeat.

STEP 2: Buff with a soft, dry cloth until clean, then rinse thoroughly.



Sea Gold
Sea Cold

STEP 3:

After cleaning with Sea Buff, apply Sea Gold, Sea Drops or Sea Quick to inside of dry lenses.

STEP 4: Rub in anti-fog with fingers.

STEP 5: Rinse in fresh, or saltwater.



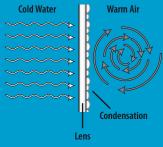




How Anti-Fogs Work

Mask fogging results from warm humid air inside the mask meeting a lens surface cooled by water. Warmer air is capable of holding more water vapor (water in gas form) than cooler air. Therefore, when air is cooled, a portion of its water vapor condenses into tiny liquid droplets, or "fog".





McNett* Anti-Fogs prevent fogging by creating a thin, invisible film on the lens which creates a "sheeting effect" - eliminating the formation of condensation droplets.

Mask Maintenance Tips

- To minimize mold and algae build-up, rinse your mask with fresh water after each dive and allow it to dry completely before storing.
- Store your mask in a hard case to protect it from dirt and abrasives and also to protect it while travelling.
- Avoid leaving your mask in the sun or resting on your head prior to a dive

 the heat will cause a spike in the mask's temperature which contributes to fogging



Use Sea Buff as a slate cleaner!
Rinse your slate with fresh water after every dive and use Sea Buff for periodic heavy-duty cleanings.

3

WET SUIT / DRY SUIT REPAIRS

MAXIMUM STRENGTH REPAIRS

Urethane-based adhesives are the best for achieving maximum strength and durability. When your goal is a permanent bond, choose Aquasure*
Repair Adhesive & Sealant – it's the industry standard for high strength, absolutely permanent repairs to all kinds of dive gear including wet suits, dry suits, gloves, boots, gear bags and more. Aquasure cures to full strength overnight or in 2 hours with Cotol-240™ Cure





Accelerator & Pre Cleaner.

Use Aquasure to seal leaky gasket seams.

STEP 1: Turn suit inside out. Clean damaged area with Cotol-240 or isopropyl alcohol. Non-fabric surfaces such as latex should first be roughened with sandpaper, then cleaned.



STEP 2: Apply Aquasure in a 2mm high bead overlapping seam edges by at least 12mm. Use included brush to saturate fabric surfaces. Dry level overnight.

Aquasure is also ideal for repairing holes and tears. For holes larger than a pinhole, create a backing with removable tape. Fill hole and 6mm beyond. Remove tape after Aquasure has fully cured.



Create a Knee Patch



Create an ultra-tough, flexible knee patch with Aquasure to protect suits from abrasion. Simply apply a thin coat of Aquasure with a disposable plastic knife. Dry level overnight.



HIGH SPEED, IN-FIELD REPAIRS

For quick, grab-and-hold repairs in the field opt for neoprene-based contact cement. Contact cements are formulated specifically for rapid tack and bonding. Black Witch™ Neoprene Contact Cement cures to full strength in only 30 to 60 minutes and creates a strong, durable, flexible bond.





STEP 1: Apply Black Witch on both edges of the repair area. Allow to dry for 5 minutes or until touch dry.

STEP 2: Press and hold edges together until adhesive cures.



STEP 3: Ensure surfaces are fully bonded before use.

IRON-ON REPAIR



Iron Mend™ Iron-On Fabric Repair Patch provides strong, flexible, long lasting repairs for neoprene. Use Iron Mend to reinforce and repair high stress areas on your suit, including knees, elbows, crotch,under arm and around the zip.

STEP 1: Wash and dry neoprene article.

STEP 2: Pre-heat iron to acrylic, low or delicate setting. For irregular surfaces including sleeves and legs, insert a piece of wood to create a firm, flat ironing surface.

STEP 3: Cut Iron Mend to overlap damaged area by 20mm. Always round the corners of your patch as patches with curved edges are less likely to peel back later. Place Iron Mend over damaged area with the urethane coated side down and cover with full sheet of heat shielding paper.

STEP 4: With preheated iron, press Iron Mend down with firm, even pressure for 10 seconds. Lift and rotate iron; apply for another 10 seconds.

STEP 5: Allow repair to cool for a few minutes before testing adhesion. Apply more heat if needed.







SUIT REPAIRS & CARE

GASKET PROTECTION

With exposure to sunlight, saltwater, and chlorine, synthetic gaskets degrade over time due to the loss of structural oils called plasticizers. Proper protection with UV Tech $^{\text{TM}}$ is essential for maximizing scuba gear life.







Replacing Gaskets

- If the existing gasket is in good condition the new gasket can be glued to the existing gasket "ring". If the old gasket is cracking or peeling from the suit it is best to remove the "ring". For easiest removal, cut the old gasket off with a razor. Cut only the latex, not the suit fabric.
- Insert a clean cylinder form (coffee can, yogurt container, etc.), covered with wax paper or glossy tape, into the neck opening of the dry suit. The form should fit tightly.

 Cylinder Form
 - Position the suit so that 25mm 50mm of the form is exposed.
- 3. Stretch the new gasket over the form so that it completely overlaps the old gasket. Place a rubber band over the gasket about half-way down the form. Fold the new gasket up over rubber band to expose the base of the old gasket underneath.
- Buff both latex surfaces with sandpaper and wipe with Cotol-240™ or rubbing alcohol (isopropyl alcohol).
- Spread a thin layer of Aquasure® on to the old gasket using a disposable knife or craft stick.
 Carefully fold the new gasket on top of the old.
 Gently apply pressure around the gasket to remove any air bubbles.
- Monitor the repair closely. Within the first hour, check occasionally to make sure the gasket has not slipped and that no wrinkles or air bubbles have formed. Allow repair to cure for 24 hours before removing the form.









ZIP CLEANING & CARE

Regular cleaning and lubrication helps zips last the lifetime of the suit. Without proper care (left), expensive zips degrade and need costly replacement. Keep your wet suit, dry suit, gear bag zips free of harmful dirt, sand and salt deposits with Zip Care™ (right).







STEP 1: Unzip item and use Zip Care's brush top to remove grit and dust.

STEP 2: Brush Zip Care generously onto zips teeth to clean and lightly lubricate. Wipe off excess.

STEP 3: Carefully open and close zip to thoroughly distribute Zip Care.





Zip Tech™ is preferred for multi-dive lubrication. Use Zip Tech to lubricate and protect watertight and airtight zips on dry suits from corrosion and harmful salt, chlorine and other pollutants. To use: Open zip and apply Zip Tech sparingly only to the outer teeth of the zip.

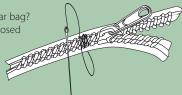




If you prefer a paraffin wax and silicone-based lubricant, Max Wax™ is great for general zip lubrication. Note: Some suit manufacturers prefer you use silicone free formulas such as Zip Tech and Zip Care.

Zip Repair

Broken zip tooth on a dive gear bag? Stitch the damaged section closed to prevent further separation until you can repair properly or replace.

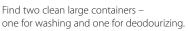


DIVE GEAR CLEANING & CARE

SUIT CLEANING & CARE

Regular cleaning with Wet & Dry Suit Shampoo prevents chlorine and salt damage (left half of photo) and keeps suits looking and feeling like new (right half of photo).





STEP 1: Fill both containers with enough warm or cold water to submerge your suit. To the first container, add 2 capfuls (15ml) of Wet & Dry Suit Shampoo per 4 litres of water.

For extra suit conditioning, add a few teaspoons of Silicone Pump in with your Wet & Dry Suit Shampoo when washing your suit.



STEP 2: Give your suit a good scrub to eliminate saltwater, chlorine, sweat, urine and other residue. Regular cleaning maintains suit suppleness, keeps colours bright and eases suit entry.



STEP 3: To remove residual odours and bacterial from your wet suit, add 2 capfuls (15ml) of MiraZyme™ Enzyme Based Gear Deodorizer to the second container. For stuborn odours, apply MiraZyme directly to problem areas with a spray bottle.



STEP 4: Dip suit to saturate all areas. Remove from container. DO <u>NOT</u> rinse.

STEP 5: Hang suit to dry on a flexible, padded wet suit hanger. As the suit dries, MiraZyme does its work - consuming organic matter such as hair, mold, mildew, as well as algae, bacteria, pollution, waste matter and urine, leaving your suit odour-free.



EASING SUIT ENTRY

To slide right into your wet suit and booties, spray inside with Silicone Pump prior to suiting up.

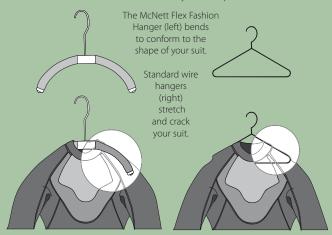


To ease dry suit entry, put a plastic grocery bag (with an opening on both ends) or a shower cap over your head to prevent the latex neck seal from sticking to your hair.



Wet Suit Maintenance Tips

 Standard clothes hangers cause extra strain to your suit's shoulders, leading to stretching and cracking. Use a flexible, padded Flex Fashion™ Wet Suit Hanger instead. The Flex Fashion Wet Suit Hanger can be molded to accommodate any suit shape.



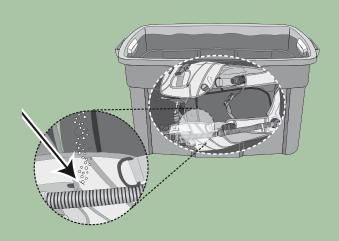
- Store your suit and all dive gear in a cool, dry closet, away from direct
 heat or sunlight to prevent premature aging. If you must store dive gear
 in the garage, use air/light tight containers to protect from exhaust
 fumes, temperature extremes and moisture.
- Leave your suit's zip open during storage to eliminate strain on the sealing elements.

DIVE GEAR CLEANING & CARE

B.C. Maintenance Tips

In addition to regular cleaning (opposite page), a few simple checks after each dive will help keep your B.C. in top condition:

- Look for small tears and punctures, loose stitching and stressed fasteners. Repair with Aquasure to prevent further damage.
- Check for leaks by pressurizing the B.C. using the oral or power inflator, then submerging the B.C in a container of water. Slowly rotate the B.C. in all directions, keeping an eye out for air bubbles. Mark the location of the leak, allow the B.C. to dry, then repair with Aquasure.



Test the oral inflation and power inflation buttons to ensure they move freely. If they feel sticky, salt or sand could be the problem. Wash and if problem persists, take the B.C. to

your local dive shop for inspection.

- Use a toothbrush to remove sand from Velcro* and other nooks and crannies.
- Store your B.C. in a cool, dry spot, away from direct heat, sunlight, car exhaust and harsh chemicals.
 Partially inflate it with dry air to prevent mold and mildew growth. This will also keep the bladder from sticking together when stored over a long period of time.

B.C. CLEANING & CARE



B.C. Life™ removed 4 tablespoons of salt from one B.C. (left) - some of the crystals were 25mm wide! Salt crystals will abrade your B.C. bladder, hoses, O-rings and valves, irreversibly damaging this vital piece of gear.



Clean your B.C. regularly with B.C. Life to preserve and condition the shell, interior lining, hose and valves and to eliminate damaging salt crystals.

STEP 1: Pour 4 capfuls (30ml) of B.C. Life into the mouthpiece, pressing the oral inflate button with your thumb.



STEP 2: Fill B.C. with fresh water and shake to mix with B.C. Life. Turn B.C. upside down and sideways to thoroughly clean all chambers.





STEP 4: Soak B.C. in 30ml B.C. Life to 4 litres water for 10 minutes to clean exterior. Rinse interior and exterior thoroughly. Hang B.C. partially inflated in a cool, dry place to air dry.



11

DIVE GEAR CLE ANING & CARE

Maintain your fins suppleness and flexibility with regular UV Tech™ treatments. A brittle or cracked fin will inhibit kick efficiency. UV Tech is also a great way to keep colours from fading on your PFD.



Fin Tips

- When shopping for fins, always try them on over your booties or whatever footwear you expect to wear while diving.
- Full foot or open-heel fins? Full foot models, which fit like slippers, tend
 to be lighter, making them ideal for snorkeling and warm water diving
 when booties are not needed. Open-heel fins, which slide on and are
 secured by a strap at the heel, are necessary for cold water diving when
 you are wearing booties.
- To prevent warping, avoid standing your fins on the tip of the blades for an extended period of time and store away from direct heat, light and chemical fumes.



Which Fins Are Best for You?



Blade Fins:

Classic blade fins are known to provide strong and powerful kicks in the water. Divers comment that blade fins are best when the need is for speed and/or lots of frog kicks. They are commonly used for cave and wreck diving. Blade fins are slightly negative in buoyancy which counteracts a thick and highly buoyant exposure suit.

Split Fins:

Modeled after a whale's tail, split fins funnel the water delivering more forward motion with considerably less effort than traditional blade-style fins. The twin blades act like counter-rotating propellers, reducing drag and turbulence, allowing for easier underwater manoeuvring. Many divers also report that, after switching from blade to splitfins, they no longer experience calf muscle cramps.



12

DIVING ESSENTIALS



A diver's gear (wet suit, fins, B.C., tank, weights and regulator) can weigh anywhere from 20 to 35 kilos. The bulk of this weight is in the middle of your body - while over half of your buoyancy is below the waist. Reduce leg and fin buoyancy and alleviate back stress by wearing Durward Ankl Weights™.

AQUAPAK

Don't let wear and tear affect the performance or value of your surfboards, canoes, kayaks and boats etc. Use McNett Aguapak to fill unsightly dents, scratches or holes. Aquapak can even be applied to damp or underwater surfaces etc.

When cured (in approx one hour) Aquapak sets to a solid finish which can be sanded then painted to give your surfboard and other watersports items a brand new life.

Aguapak can also be used on many other surfaces including boat hulls, caravans, cars and is also useful for home repairs.

Buoyancy Tips

Proper weight distribution is the key to comfortable diving. Divers encounter back pain and awkward manoeuvring when the majority of added weight is located at the mid-section. Wearing Ankl Weights will counteract fin buoyancy and reduce back pain by distributing

the weight more evenly.

Wearing only a weight belt can strain the back and force the body to curve





For proper body alignment, reduce the amount of weight on the belt and add Ankl Weights

To test buoyancy: wearing full gear, with no air in your suit or B.C., take a full breath and hold it as you float vertically and motionlessly. You'll float at eye level. You are neutrally buoyant if you slowly sink as you exhale. Add weight as needed to compensate for the buoyancy change as your tank is emptied.

McNett ProTalc is a must have item in your list of essential care products. Pro Talc is non hazardous, easy to use and lightweight, therefore suitable for packing into your travel luggage for use during your watersports adventures.

TIP 1. To ease entry into wet & dry suits and to help prevent chafing apply McNett ProTalc onto neck and wrist seals.

TIP 2. Sprinkle ProTalc onto your Aguasure repairs to help prevent tacking after cure. Suitable for latex seals boots & gloves etc.

TIP 3. Always ensure that watersports / dive gear is allowed to thoroughly dry before packing away into long term storage.

Tip 4. To help preserve your rubber or latex seals, sprinkle ProTalc to both sides of all seals prior to storage.



15

BOAT CARE

DIVE HEALTH

BOAT CLEANING & CARE



To remove tough stains on dive boats, kayaks, inflatables and PFD's, clean regularly with McNett* Boat Cleaner. This environmentally friendly formula effectively removes stains caused by mold, mildew, saltwater, dirt etc.



After cleaning your boat, spray with UV Tech™ to prevent brittleness, cracking and colour fading. For best results, treat boats and gear with UV Tech every 30-45 days.

When in doubt, use environmentally friendly UV Tech.

Many dive manufacturers recommend against the use of silicone protectants because:

- 1) Silicone is not compatible with some of today's materials; 2) Silicone is slippery and can prevent adhesives from
- 2) Silicone is slippery and can prevent adhesives from bonding making repairs more difficult.



HYDRATION



Diving is dehydrating especially in tropical heat. Dehydration contributes to decompression sickness, fatigue and cardiovascular stress. Any of these conditions could prove to be potentially fatal during a dive trip. To make up for water lost while diving, drink 4 litres of water each day.

An Aquamira* Water Bottle & Filter plus Aquamira water purification tablets or liquid, is essential in countries or areas

where the water tastes bad or clean drinking water is not readily available. To use, simply fill the bottle with water, insert the filter and squeeze to drink.



17

Diving From A Boat

As a boat operator you should:

aquamira

- Be able to recognize a "diver down" flag, a bright red flag with a diagonal white stripe, floating in divers' areas.
- Stay the legal distance from a diver down flag. The law varies by state so check with your local authorities.
- Be on the lookout for bubbles breaking the water's surface. There
 may be divers below who have strayed from their marked diving
 area.

When diving from a boat, remember:

- · Always display the diver down flag from your dive raft or buoy.
- Carry a whistle to alert boaters of your presence and to warn fellow divers of hazards.
- Have at least one person remain on the boat as an observer or in case of emergency.

DIVETRAVEL ESSENTIALS

PREPARING FOR YOUR TRIP



Preparing for a dive holiday is just as important as the dive itself. Thorough pre-trip planning will help ensure a fun, relaxed and safe dive holiday.

Learn About Your Destination

- Consult your Embassy travel desk for reports, travel warnings and other announcements regarding travel to the places you plan to visit.
- Research your destination! Read everything you can get your hands on

 guidebooks, magazines, newspaper articles, and websites to brush
 up on local customs, laws, language, appropriate dress, climate, currency,
 cuisine. etc.
- Book flights, hotels, etc. far in advance to avoid unnecessary fees and problems, especially during peak travel times, i/e spring break and winter holidays etc.
- Visit your local dive store to ask about recommended gear lists for your destination.
 Many dive stores also plan dive holidays – a great place to get started.

Critical Pre-trip Preparations

 Make sure your passport, visa and driving licence are up to date. Many countries require that you have at least 6 months of validity left on your passport before you enter. It takes about 6 weeks to obtain a passport and 6 months for a visa, but you should allow longer during peak travel times.





- Visit your Doctor for a complete physical and for all required immunizations. Check your medical insurance to determine whether your policy covers illnesses, accidents or injuries outside your home land. Keep medications in their original packaging to avoid problems. Ask your chemist to make smaller travel-sized bottles for prescriptions.
- Don't forget your scuba diving certification card!
 No certification card? No diving!
- Give a copy of your full itinerary to a trusted friend or relative at home.



 Re-confirm your ticket 24 hours before a domestic flight and 72 hours before an international trip. Check with your airport to find out how early to arrive; check - in times vary by airport and season.

Dive Travel Essentials - Checklist

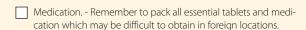
Bring your own dive gear when traveling abroad – with the exception of tanks and weights. Make a checklist of your diving essentials before you start packing. We recommend bringing the following;

- MicroNet™ Microfiber Towel the perfect towel for watersports enthusiasts due to it is highly absorbent, quick drying, ultralight and compact size. See page 20.
- Mask, fins & snorkel.
- Mask anti-fog see pages 2-3.
- B.C. Check out all the new travel B.C.'s now available at your local dive shop.
- 15ml McNett Travel-Sized Cleaners Maintain your equipment on the go! See pages 8-11 for important gear care tips.
- Gloves, booties and hood.

Dive Travel Essentials - Checklist

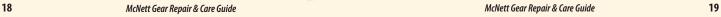
Don't let mosquitoes and other biting insects ruin your
watersports holiday. Pack McNett AntiBite insect repellent
into your checked in luggage, not your carry on. See page 23.

Wet suit or dry suit, plus bathing suit.



- Remember to pack Sun and UV Protection products Take extra care and avoid over exposure to the sun during your travel or watersports activities.
- Regulator, depth gauge, tank-pressure gauge, underwater timer and compass.
- Dive knife remember to pack into your checked in luggage, not your carry on.

When diving in a new location always talk to the local divers, as they will know where the best and safest dive areas are. Using their knowledge could mean the difference between a good or exceptional dive holiday.



DIVETRAVEL ESSENTIALS

TRAVEL ESSENTIALS

Sky Blue

The MicroNet[™] Microfiber Travel Towel 3 Products in 1! Luggage and carry-on space is limited on today's airlines so you need to pack items that multi-task! A towel, blanket and sarong, the MicroNet Travel Towel is a necessity for any dive yacation because it is:

Versatile –
 Makes a quick
 and fashionable
 bathing suit wrap.



• Quick Drying – 90% of water is removed with hand-wringing.

Mocha

Moss

Sea Foam

Highly Absorbent –
 Holds 5 times its weight in water.

Compact and Lightweight –
Packs down to
the size of a
paperback book!



Standard Towel

- Velvet Soft Cuddle up with this perfect travel blanket.
- Added Bonus Towels include a handy mesh storage bag that is perfect for stashing personal necessities for the boat, pool, beach or plane.

SECURITY ESSENTIALS

Pack your security wallet with the following: passport, driver's license/photo ID, airline tickets, immunization records, itinerary, traveler's cheques and large sums of cash.

- Pack all valuables, medications and toiletries in your carry-on.
 A good rule of thumb is to fill your carry-on with those things that would be difficult or impossible to replace.
- It is also a good idea to carry-on these key pieces of dive gear: mask, regulator, dive computers and camera.



Travel Security Tips

- To help ensure your luggage is not mistakenly taken by someone else, clearly
 personalize the outside of your luggage with coloured tape or stickers etc.
- Do not carry liquids, gels, sharp or pointed objects in your carry on hand baggage otherwise they will be confiscated. Always pre check with airport security which items are allowed in carry on hand baggage. Ensure all liquids and gels lids are tightly closed and to help avoid leakage, pack into sealed plastic bags in your checked in travel luggage.
- When travelling in unfamiliar countries try to maintain a safe and low profile. Never carry large amounts of cash or wear expensive jewelry etc as these items may help to attract unwanted attention. Always be familiar with the countries emergency services telephone numbers and carry pre paid phone cards as required.

Travel Security Tips

- Choose a lock combination that is personally significant to you and therefore easy to remember, like a birthday or anniversary.
- Make photo copies of your passport, ID, travel documents and credit cards and carry separately from the originals to make obtaining replacements easier if need be.
- Place a small identifying sticker on the outside of your passport to help distinguish it when travelling in groups.

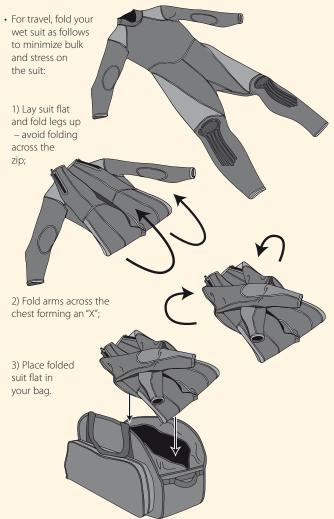


21

DIVETRAVEL ESSENTIALS

How to Pack Your Dive Gear

- Before you leave, lay out all your dive gear and position items in relation to how you will wear them. Starting with the last item you will need, begin packing your bag.
- Wrap your fins in a towel and pack flat on the bottom or side of your bag.
- Always pack your mask, regulator, dive computer and other sensitive equipment in their protective cases.



 On the way home, disperse dryer sheets throughout your gear bag to minimize odours

McNett Gear Repair & Care Guide

INSECT REPELLENTS



Biting and stinging insects such as mosquitoes, midge, gnats, ticks and horse flies can ruin any leisure activity.

They irritate, cause itchiness and can also transfer a number of serious infectious diseases including malaria, yellow fever and dengue.

Reduce the risk of mosquito bites by wearing light coloured, finely-woven clothing.

Where possible, cover exposed skin with long sleeves, long trousers and socks etc.



Deet 50%

Mosquito nets are an essential and inexpensive accessory, which helps to ensure you get a good nights rest.

They are also lightweight and compact making them ideal for your travel kit.

Apply a strong insect repellent such as McNett Anti-Bite Deet 50% to exposed skin areas especially at night.

For young children, pregnant women or people with sensitive skin use a natural insect repellent such as McNett Bio Formula Anti Bite



BIO FORMUIA



McNett Gear Repair & Care Guide



Essentials for Adventure[™]

At McNett, we believe it's important to renew and re-use dated scuba diving and watersports gear, especially for the purpose of introducing new people to the watersports world. Young people in particular need mentors willing to show them there is a world beyond the 'virtual' one.

Our products will help you get the most from your new gear and keep old gear lasting longer. These unique formulas make your masks fog-free, breathe new life into wet suits and fins, maintain vital equipment like B.C.'s and regulators, and permanently seal leaky wet suits and dry suits.

- Your friends at McNett



Distributed by:

McNett Europe
P.O. Box 1144 • D-29684 Schwarmstedt • Germany
www.mcnetteurope.com

Diving & Watersports Gear Repair & Care Guide - Item Code 99961

Copyright 2008 McNett Corporation.
The contents of this brochure may not be used or reproduced in any way without the prior, written consent of McNett Corporation. All rights reserved.