Formula 90 Biosolv Carpet Detergent
FOR PROFESSIONAL USE ONLY

Quick dissolving   Fresh citrus fragrance   Great Cleaning

BACKGROUND
Formula 90 Biosolv Carpet Detergent is a general purpose emulsifying detergent. It is an in-tank product and is specially formulated for use on heavily soiled carpeting. **Formula 90 Biosolv** is compatible with both portable or truck mount extraction systems. It is used in the extraction process after the carpet has been pretreated with a Traffic Lane Cleaner. **Formula 90 Biosolv** includes water conditioning agents, surfactants, alkaline builders and a corrosion inhibitor.

Formula 90 Biosolv is moderately alkaline. Alkaline rinse agents are used at very high dilution levels so they leave very little residue on carpet fibers. The combination of modest alkalinity, water conditioning and wetting, however, improves the overall efficiency of the rinse extraction process compared to rinsing with pure water. This is particular value when treating heavily soiled carpets.

Formula 90 Biosolv is particularly useful when cleaning olefin commercial carpets or when servicing property management or apartment clients.

The basic 2-step process is:
1. Pretreat with traffic lane cleaner. For best results, use Fission Traffic Lane Cleaner. Extract using **Formula 90 Biosolv**

ITEMS NEEDED
Note: be sure all equipment operates properly before arriving at the customer's location
- **Cleaning products: Formula 90 Biosolv**, Chemspec traffic lane cleaners such as Fission, Express Lane 2.0, Express Lane TLC, Enz-All, Traffic Lane Cleaner, etc.
- **Optional products:** acidic rinse, defoamer, soil retardant, Energizer
- **Personal Protective Equipment** (PPE) as specified in the Safety Data Sheet (SDS)
- **Supplies:** booties, carpet groomer, adequate supply of clean cloths and a plastic bag for the storage of soiled cloths, measuring cup, wet floor signs, corner guards, traffic lane protectors and furniture leg protectors as needed, empty 5 gallon pail to prepare stock solution
- **Equipment:** air movers (the Dri-Eaz AirPath is particularly useful in this application), vacuum cleaner (preferably a two motor upright), pressure injection or electric or pump up dispensers as desired for the job, either truck mount or portable extraction equipment as desired for the job

PREPARATION OF SOLUTIONS
DIRECTIONS FOR TRUCKMOUNT USE: Dissolve 1.5 pounds of the **Formula 90 Biosolv** in one gallon (0.7 kg per 3.8 L) of hot water. Be sure that all the crystals are completely dissolved before proceeding. Then dilute to 5 gallons (18.9 L) to make the truck mount stock solution. Use an application rate of 2 gallons (7.6 L) per hour for residential carpets and 3 gallons (11.3 L) per hour for commercial carpets.

DIRECTIONS FOR PORTABLE USE: Dissolve 2 scoops (2 oz. / 57 g) of **Formula 90 Biosolv** in five gallons (18.9 L) of hot water for use on heavily soiled carpets. Use 1 scoop (1 oz. / 28 g) per 5 gallons for lightly soiled carpets.

Tech tips:
- *When cleaning carpets that have certain stains or need brightening, **Energizer** can be used as an additive. Follow label directions.*
- *Be sure to replace the cover or cap on the container after dispensing the product. This protects the product from moisture and contamination.*
- *Add the concentrate to the water rather than water to the concentrate; this will reduce foam inside the container.*

PRETESTING: Check compatibility of product with the carpet prior to use.

INSPECTION
Inspect the customer's carpet before doing any work. Note any of the following on your inspection report and discuss with the customer:
- Air flow and drying problems within the building
- Objects that might be damaged if in contact with wet flooring such as floor length window treatments, furniture legs or skirts. Be sure to protect these items.
- Access to the work area: be sure you have room to move equipment in and out without causing damage to walls and objects in the room.

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- Check the area for fragile objects. Be sure these items are removed to a safe location per customer instructions.
- Inspect and make a note of carpet for any tears, bunching, burns or other damage, excessive wear, heavy staining or unusual odors. Review any issues with the customer before proceeding.

PROCEDURE
Read these steps before using the product.
- Post wet floor signs if necessary.
- If available, use a pile lifter to pilate the carpet. This prepares the carpet for efficient soil removal.
- Pre-vacuum the carpet to remove as much dry soil as possible. This step will make the overall extraction process far more efficient and will reduce the chance of wicking.
- Prespray carpet with the traffic lane cleaner; be sure to follow label directions. Allow a 10 to 15 minute dwell time but do not allow the solution to dry on the carpet.
- Begin the extraction process using **Formula 90 Biosolv** ready to use solution. Be sure that the water supply is hot and be sure to use alternate wet and dry strokes in order to remove as much water as possible. If foam starts to form in the waste water stream, put foam suppressant into the vacuum line. Do NOT add foam suppressant to any detergent or rinse solution.
- Inspect the work area for possible overspray, soil wicking, or odor.
- It is at this stage of the process that soil retardant could be applied to the carpet.
- Establish good drying conditions. Depending on the size and layout of the building, it is useful to install air movers to begin the drying process as each room is completed. In some cases, this will allow you to show the customer a completely dry and clean section of carpet before departing.
- Final inspection: Be sure that no supplies or equipment are left in the work area, that the customer's items are returned to the correct location, and that any water sensitive items such as table legs, furniture skirts or windows treatments are protected from contact with the wet carpet.

TO CHECK AFTER COMPLETING CARPET CLEANING
- Be sure to check for any overspray of detergent or water. Remove these spills promptly.
- Dispose of waste water properly. Do not dispose anywhere but into a sanitary water treatment system or licensed waste treatment facility.
- Rinse equipment to remove detergent residues. These residues can interfere with valves or spray jets.
- Establish adequate airflow either through the use of airmovers or open windows or doors. Instruct the customer on the importance of maintaining airflow until the carpet is fully dry.

SAFETY CONSIDERATIONS
- Keep children and pets away from your work area, from cleaning products and from your equipment.
- Slip hazards can occur when stepping from wet carpet onto smooth, hard surface floors such as vinyl or ceramic. Place wet floor signs in the work area as needed.
- If using a truck mount-style extractor, remember that water supply lines and fittings will get very hot. This heat can damage lawns and some types of carpeting. The heat can also burn the skin.
- Read the Safety Data Sheets (SDSs) for all products before using them. You can obtain the SDSs from your distributor or from *www.LegendBrandsCleaning.com*
- Use the personal protective equipment specified in the SDS.

Notes
- Recommended for use on water cleanable carpeting
- NOT recommended for use on natural carpet fibers such as wool area rugs
- Not recommended for upholstery
- The ready to use pH is greater than 10 so it is not recommended for maintenance cleaning of stain resist carpeting. **Formula 90 Biosolv** could, however, be used for restorative cleaning where the warranty has already been voided and the cleaning is intended to save the carpet.

TECHNICAL DATA

Reorder nos.	C-PF9024 CASE 4 x 6 pounds C-PF90BK PAIL 50 pounds
Color	Off white
Odor	Citrus
Appearance	Clumping granules
pH of ready-to-use	10.6 @ 1.5 oz / 5 gallons
Surfactant type	Nonionic
Contains Phosphate?	Yes
Volatile Organic Content (VOC)	<2% by weight