



# ST-590



## ***KLEEN-PURGE FLUSHING AGENT***

### **INTRODUCTION**

Stratathane ST-590 Kleen-Purge Flushing Agent (KPFA) is a 100% organic blend of selected high boiling point petroleum distillates for use in cleaning, flushing, and purging urethane resins and grouting compounds from pumps, hoses, and system components.

Stratathane ST-590 Kleen-Purge Flushing Agent is a safe solvent system which is quick and easy to use. ST-590 KPFA has a long list of benefits in use including:

- No Chloro-Floro-Carbon Content
- No Methylene Chloride Content
- Ozone Safe In Use
- Environmentally Safe
- No High-Toxicity Chemical Content
- Excellent Biodegradability
- Excellent Recyclability
- Excellent Resin and Isocyanate Solvency
- Easy Cleanup With Little Residue
- Easy Incineration
- Ready To Use As Received

ST-590 Kleen-Purge Flushing Agent comes ready to use in five gallon pails or 55 gallon drums. ST-590 is highly effective and much safer to use than conventional solvents but is not as strong a solvent as acetone, methyl ethyl ketone, methylene chloride, or the like. Because of this, some extra care in cleaning procedures may be required, along with periodic use of ST-522 Veri-Kleen Grout Cleaner in a thoughtful preventive maintenance program.

### **ST-590 PROPERTIES**

Appearance	- Clear, Colorless Liquid
Odor	- Sweet
Boiling Point	- >384 Degrees F (196 C)
Specific Gravity	- 1.092 at 68 F (20 C)
Bulk Density	- 9.1 Lbs/Gallon
Vapor Pressure	- 0.2mm/Hg at 68 F (20 C)
Volatiles %	- 100%

### **INSTRUCTIONS**

Place small parts to be cleaned in a polyethylene container and soak overnight in a 100% solution.

To clean pumps and hoses, disconnect the resin supply and run the pump until the pumped stream stops flowing. Then fill the system with ST-590 and recirculate rapidly for 15 minutes. Again disconnect the supply and run the pump until the pumped stream stops flowing. Reattach the ST-590 supply, refill the system, and then let stand for 30 to 60 minutes. After soaking, recirculate ST-590 rapidly for 10 to 15 minutes. After recirculation, again run the pump until the pumped stream stops flowing. Repeat entire procedure as necessary.

For seriously clogged systems, push out ST-590 with ST-522 Veri-Kleen Grout Cleaner and follow the instructions for its use. Do not allow ST-590 or ST-522 to remain in the system for long periods. Properly dispose of used cleaning materials and do not reuse if contaminated or resin-loaded.

Allow the used materials which collect in the catch buckets to stand for 24 hours to enable the resins and isocyanates to coalesce into a gelatinous or semi-solid mass which will settle to the bottom of the bucket. Then pour off the ST-590 on top and save for incineration or alternative disposal according to local regulations. Allow the bottom semi-solids to solidify and dry, and dispose in a solid waste landfill or incinerate in accordance with local regulations.

Residual solids resulting from the cleaning process appear to be disposable by landfilling as a solid waste, but local regulations may differ from area to area. The responsible agency at the point of disposal should be consulted as to the proper disposal procedures for the area in question.

If a significant quantity of resin and isocyanate react in the catch bucket, the reaction exotherm will produce some obvious evaporation of the ST-590. These fumes must be exhausted to preserve a clean and safe work environment. The exhausted fumes do not need to be reported as toxic emissions according to the definitions of SARA Title III, Section 313.



Use ST-590 and ST-522 frequently to take good care of your equipment. Proper equipment cleanup is just as important as the work itself. If cleanup is done properly, the next job will go more smoothly without malfunctions and downtime for wash up that should have been done after the last job.

For further instructions on proper equipment cleaning sequences, see the Owner's Manual for the pump in question. For personal hygiene requirements, see "SAFETY", the MSDS information for the various cleanup materials, and the product labels.

## HANDLING AND STORAGE

Use reasonable care in handling and storing ST-590. The material is moderately sensitive to high storage temperatures. Under optimum storage of 40 - 60 F in dry conditions, the material should have a useful shelf life of one year. Storage temperature should not exceed 90 F. Once a container has been opened, the life of the material is reduced. Let container stand and adjust to ambient temperature before opening to prevent contamination by condensation.

Test a resealed container to assure that moisture contamination has not occurred. Before handling this product, read and understand the Material Safety Data Sheet (MSDS). Instruction in sound safety practices is beyond the scope of this publication.

Direct contact of ST-590 liquid may cause skin and eye irritation. If ST-590 comes in contact with skin, wash with soap and water. For eye contact, flush immediately with water for at least 15 minutes and consult a physician. ST-590 must not be ingested. If ingested, get immediate medical assistance. Before eating, smoking or drinking, remove protective clothing, wash with soap and water, and stand away from the immediate work site.

Do not smoke while working with ST-590. If respiratory difficulties occur, seek medical attention. Avoid exposure to vapors created from this product when it is heated. Gloves, goggles, respirator and protective clothing are recommended. Ventilate the work area as a matter of good practice, although hazardous levels of toxic vapors are not generally given off of the bulk product below 90 degrees F.

## CAUTIONS

ST-590 Kleen-Purge Flushing Agent is combustible and will burn. ST-590 should not be used near open flames, burning cigarettes, or other ignition sources.



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## STATEMENT

Strata Tech believes that the information herein is an accurate description of the general properties and characteristics of the product(s), but the user is responsible for obtaining current information because the body of knowledge on these subjects is constantly enlarged. Information herein is subject to change without notice. Field conditions also vary widely, so users must undertake sufficient verification and testing of the product or process herein to determine performance, safety, usefulness, and suitability for their own particular use.

Strata Tech warrants only that the product will meet Strata Tech's then-current specification. NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE. Users should not assume that all safety requirements for their particular application(s) have been indicated herein and that other or additional actions and precautions are not necessary. Users are responsible for always reading and understanding the Material Safety Data Sheet, the product technical literature, and the product label before using any product or process mentioned herein and for following the instructions contained therein. Nothing in this or any other document from Strata Tech is to be taken as permission, inducement, or recommendation to practice any patented invention without a license.

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