

Pro-Flush™ HVAC Flushing Solvent

SECTION 1. IDENTIFICATION

PRODUCT IDENTIFIER:

Pro-Flush™ HVAC Flushing Solvent

OTHER MEANS OF IDENTIFICATION:

PF-08; PF-16; PF-KIT

RECOMMENDED USE OF THE CHEMICAL:

Please see label for instruction

RESTRICTIONS ON USE:

None known

MANUFACTURED BY:DiversiTech Corporation
3039 Premiere Parkway
Suite 600
Duluth, GA 30097**INFORMATION PHONE #:** 1 800.995.2222**EMERGENCY PHONE #:** 1 800.255.3924 Chem-Tel
(Chemical Emergencies)

SECTION 2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE CHEMICAL:

Eye Irritant, category 2a

Specific Target Organ Toxicity-Single Exposure, category 3 (drowsiness)

HAZARD SYMBOL(S):**SIGNAL WORD:** Warning**HAZARD STATEMENT(S)**

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness

PRECAUTIONARY STATEMENT(S)

P102 Keep out of reach of children.

P261 Avoid breathing mists and vapors.

P264 Wash hands and exposed skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection.

P403 Store in a well-ventilated place.

P233 Keep container tightly closed.

P405 Store locked up.

P501 Dispose of container in accordance with local regulations.

RESPONSE

P304+340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a doctor if you feel unwell.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337+313

If eye irritation persists, Get medical advice.

HAZARD(S) NOT OTHERWISE CLASSIFIED:

None known

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0% of the chemical consists of ingredient(s) of unknown acute toxicity.

NOTE:

Labeling elements found on this SDS may be different from labeling elements found on the label. Safety Data Sheets are regulated by OSHA (29 CFR §1910.1200) while the actual product and its label may be regulated by a different government agency. Please contact the responsible party in Section 1 if you have any questions.

SECTION 3. INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	COMPOSITION, wt%	GHS CLASSIFICATION(S)
trans 1,2 dichloroethane	156-60-5	50-60%	Flam Liq 2; Acute Tox 4 (inh.); Aqua Chron. 3
t-Butyl Acetate	540-88-5	20-30%	Flam Liq 2; STOT-SE 3
Acetone	67-64-1	10-20%	Flam Liq 2; Eye Irrit 2a; STOT-SE 3
Ethyl Nonafluoroisobutyl Ether	163702-06-5	10-20%	Eye Irrit 2a

TRADE SECRET CLAIM:

When applicable, the specific concentration of each hazardous ingredient is considered a TRADE SECRET. Chemical names and identifiers will be listed in exact composition weight and name when not subject to trade secret exemptions.

NOTE:

This product may contain other ingredients that are not required to be disclosed on this safety data sheet or product label in accordance with 19 CFR §1910.1200. Any ingredient not listed on either the SDS or label is not considered hazardous to health and shouldn't pose a risk to the user.

SECTION 4. FIRST AID MEASURES

GENERAL FIRST AID MEASURES:

If medical attention is required due to exposure then be sure to take product label or safety data sheet when seeking medical care.

MOST IMPORTANT SYMPTOMS:

Eye irritation.

IF INHALED:

Move person to fresh air and keep at a comfortable position for breathing. Administer artificial respiration if person is not breathing.

IF ON SKIN:

Wash with soap and water. Take off contaminated clothing and wash it before reuse.

IF IN EYES:

Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED:

Do NOT induce vomiting unless instructed to do so by a trained medical professional. Rinse mouth with water.

INDICATION OF IMMEDIATE MEDICAL ATTENTION:

Not anticipated to require immediate medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, foam or other media suitable for the primary source of the fire.

UNSUITABLE EXTINGUISHING MEDIA:

None known.

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SPECIFIC HAZARDS:

Exposure to temperatures above 70°C/160°F may cause containers to burst.
Will become combustible when mixed with air under pressure and exposed to strong ignition sources. Contact with certain finely divided reactive metals may result in formation of explosive or exothermic reactions under specific conditions (e.g. very high temperatures and/or appropriate pressures). In the event of a liquid spill, ethyl nonafluoroisobutyl ether will evaporate from the mixture faster than the other components, leaving a mixture enriched with trans-1,2-dichloroethylene, acetone and t-butyl acetate. The enriched mixture may be flammable.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide, and nitrogen oxides.

PRECAUTIONS FOR FIRE-FIGHTERS:

Use a water spray to keep fire-exposed containers cool and to knock down vapors that may result from product decomposition.

SPECIAL PROTECTIVE EQUIPMENT:

Firefighters should wear self-contained breathing apparatus for protection against suffocation and possible toxic decomposition products. Wear proper eye and skin protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Remove non-emergency personnel from the area in an orderly fashion.

PROTECTIVE EQUIPMENT:

Use appropriate chemical-resistant gloves and eye protection.

EMERGENCY PROCEDURE(S):

Cover drains to prevent spill from entering waterways. Evacuate non-emergency personnel from the area. Shut off all sources of ignition.

METHODS FOR CONTAINMENT:

Cover drains and ventilate area to prevent vapor build-up.

REFERENCES:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

METHODS FOR CLEAN UP:

For small spills, wipe with an absorbent material. For large spills, collect with sawdust, sand, or binder before cleaning. Place in an area appropriate for disposal.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Keep away from all ignition sources. Do not smoke while handling.

CONDITIONS FOR SAFE STORAGE:

Keep cool in a well-ventilated place away from sunlight. Ensure local and adequate ventilation. Keep container tightly sealed in its original container.

STORAGE INCOMPATIBILITIES:

None known

SECTION 8. EXPOSURE CONTROLS

INGREDIENT

trans 1,2 dichloroethane

CAS No.

156-60-5

PEL

N/A

AGCIH

N/A

NIOSH

N/A

t-Butyl Acetate

540-88-5

950 mg/m³

50 ppm

950 mg/m³

Acetone

67-64-1

2400 mg/m³

250 ppm

590 mg/m³

Ethyl Nonafluoroisobutyl Ether

163702-06-5

N/A

N/A

N/A

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GENERAL NOTE:

Practice good industrial hygiene. Wash hands after handling and use.

APPROPRIATE ENGINEERING CONTROLS:

Ensure mechanical ventilation.

EYE/FACE PROTECTION:

Eye protection is recommended. Wear goggles or another form of chemically resistant eye protection.

SKIN PROTECTION:

Wear gloves suitable for chemical protection.

RESPIRATORY PROTECTION:

No anticipated protective equipment is required.

ENVIRONMENTAL PROTECTION:

No anticipated protective equipment is required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colorless liquid
pH: Not applicable.
MELTING POINT: 175°F
FLASHPOINT: Not applicable.
FLAMMABILITY: Not flammable.
VAPOR PRESSURE: ~1psig, ~16psia
VAPOR DENSITY: 3.8 @ 70°F
SOLUBILITY: ~7 grams/liter
AUTO-IGNITION: Not determined.
VISCOSITY: Not determined.

ODOR: Sweet Odor.
ODOR THRESHOLD: Not determined.
BOILING POINT: 41°C/106°F
EVAPORATION RATE: >1
UPPER EXPLOSIVE %: Not determined.
LOWER EXPLOSIVE %: Not determined.
RELATIVE DENSITY: Not determined.
PARTITION COEFFICIENT: Not determined.
DECOMPOSITION TEMP: Not determined.

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY:

Not anticipated to be reactive.

CHEMICAL STABILITY:

Chemical is anticipated to be stable in normal storage conditions.

HAZARDOUS REACTIONS:

None known.

CONDITIONS TO AVOID:

Heat, sources of ignition, direct sunlight, etc.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents, strong alkalis and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, hydrogen sulfide, phosgene.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY ESTIMATES:

Oral – Contains no ingredient(s) considered toxic.
Dermal – Contains no ingredient(s) considered toxic.
Inhalation – >21,000 ppmV

SKIN CORROSION/IRRITATION:

Contains no ingredient(s) applicable to this category.

SENSITIZATION:

Respiratory: Contains no ingredient(s) applicable to this category.
Skin: Contains no ingredient(s) applicable to this category.

EYE DAMAGE/IRRITATION:

Contains an ingredient applicable to this category.

GERM CELL MUTAGENICITY:

Contains no ingredient(s) applicable to this category.

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REPRODUCTIVE TOXICITY:

Contains no ingredient(s) applicable to this category.

CARCINOGENICITY:

Contains no ingredient(s) applicable to this category.

ASPIRATION HAZARD:

Contains no ingredient(s) applicable to this category.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:

Contains an ingredient applicable to this category.

SYMPTOMS RELATED TO CHARACTERISTICS:

Not determined.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:

Contains no ingredient(s) applicable to this category.

NATIONAL TOXICOLOGY PROGRAM LISTING:

No ingredients listed.

DELAYED AND IMMEDIATE EFFECT FROM SHORT- AND LONG-TERM EXPOSURE:

Not determined.

INTERNATIONAL AGENCY FOR REACH ON CANCER LISTING:

No ingredients listed.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Algae – Contains no ingredient(s) considered toxic.
Fish – Contains no ingredient(s) considered toxic.
Crustacea – Contains no ingredient(s) considered toxic.

PERSISTENCE AND DEGRADABILITY:

Not determined.

BIOACCUMULATIVE POTENTIAL:

Not determined.

MOBILITY IN SOIL:

Not determined.

OTHER ADVERSE EFFECTS:

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF EMPTY CONTAINERS:

Please recycle container with a licensed recycling company.

DISPOSAL OF FULL OR PARTIALLY FULL CONTAINERS:

Dispose in accordance with all local regulations. Contact a licensed waste management company for questions on disposal procedures.

SECTION 14. TRANSPORT INFORMATION

HAZARD PLACARD: Not a regulated mixture.

UN NUMBER: Not a regulated mixture.

LTD QTY: Not a regulated mixture.

UN PROPER SHIPPING NAME: Not regulated.

HAZARD CLASS: Not regulated.

PACKAGING GROUP: Not regulated.

ENVIRONMENTAL HAZARD: No.

TRANSPORT IN BULK: Not determined.

SPECIAL PRECAUTIONS: Do not ship with excessive weight on top. Keep in original containers.

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SECTION 15. REGULATORY INFORMATION

SARA:

311 – Acetone, t-Butyl Acetate, trans 1,2 dichloroethane
312 – Acetone, t-Butyl Acetate, trans 1,2 dichloroethane
313 – No applicable ingredient(s).

TSCA INVENTORY LIST:

Each ingredient is on the TSCA inventory list as ACTIVE.

HMIS®III: (higher numbers indicate higher risk)

Health, 1
Flammability, 0
Physical Hazard, 1

RIGHT-TO-KNOW:

Acetone, Ethyl Nonafluoroisobutyl Ether, t-Butyl Acetate, trans 1,2 dichloroethane

CALIFORNIA:

Prop 65: No ingredient(s) listed.
ARB Designation: Single purpose cleaner.
VOC Limit: Not determined

NFPA®: (higher numbers indicate higher risk)

Health, 0
Flammability, 0
Instability, 0

SECTION 16. OTHER INFORMATION

REVISION: 3

REVISION DATE: January 7, 2021

REVISION PURPOSE:

Flammability determination changed hazards.

GENERAL DISCLAIMER:

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.