

Diversi-Flush™ HVAC Flushing Solvent

SECTION 1. IDENTIFICATION

PRODUCT IDENTIFIER:

Diversi-Flush™ HVAC Flushing Solvent

OTHER MEANS OF IDENTIFICATION:

PF-KIT-GB, PF-16-GB, PF-KIT-EU, PF-16-EU

RECOMMENDED USE OF THE CHEMICAL:

Please see label for instruction

RESTRICTIONS ON USE:

None known

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(Chemical Emergencies)

SECTION 2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE CHEMICAL:

Eye Irritant, category 2

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

Chronic Aquatic Toxicity, category 3

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

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
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.

Call a doctor if you feel unwell.

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

If eye irritation persists, Get medical advice.

P337+313

Repeated exposure may cause skin dryness or cracking.

P312
P305+351+338

EUH066

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HAZARD(S) NOT OTHERWISE CLASSIFIED:
None known.

This product does not contain substances identified as PBT or vPvB.
This product does not have a workplace exposure limit.

SECTION 3. INFORMATION ON INGREDIENTS

INGREDIENT	EC No.	CAS No.	WT%	GHS CLASSIFICATION(S)
trans 1,2 dichloroethane	205-860-2	156-60-5	50-60%	Flam Liq 2; Acute Tox 4 (inh.); Aqua Chron. 3
t-Butyl Acetate	208-760-7	540-88-5	20-30%	Flam Liq 2; Acute Tox 4 (inh.); STOT-SE 3
Acetone	200-662-2	67-64-1	10-20%	Flam Liq 2; Eye Irrit 2a; STOT-SE 3
Ethyl Nonafluoroisobutyl Ether	98-02-0209-00	163702-06-5	10-20%	Eye Irrit 2a

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 Regulation EC No. 1272/2008 (CLP). 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.

IF INHALED:

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

IF IN EYES:

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

INDICATION OF IMMEDIATE MEDICAL ATTENTION:

Not anticipated to require immediate medical attention.

MOST IMPORTANT SYMPTOMS:

Eye irritation.

IF ON SKIN:

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

IF SWALLOWED:

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

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

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

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.

UNSUITABLE EXTINGUISHING MEDIA:

None known.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide, and nitrogen oxides.

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SPECIAL 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.

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.

EMERGENCY PROCEDURE(S):

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

REFERENCES:

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

PROTECTIVE EQUIPMENT:

Use appropriate chemical-resistant gloves and eye protection.

METHODS FOR CONTAINMENT:

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

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.

STORAGE INCOMPATABILITIES:

None known.

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.

SPECIFIC END USE:

HVAC maintenance use.

SECTION 8. EXPOSURE CONTROLS

INGREDIENT

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

TWA

n/a
966 mg/m³
1210 mg/m³
n/a

STEL

n/a
1210 mg/m³
3620 mg/m³
n/a

NATION

UK
UK

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GENERAL NOTE:

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

EYE/FACE PROTECTION:

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

RESPIRATORY PROTECTION:

No anticipated protective equipment is required.

APPROPRIATE ENGINEERING CONTROLS:

Ensure mechanical ventilation.

SKIN PROTECTION:

Wear gloves suitable for chemical protection.

ENVIRONMENTAL EXPOSURE CONTROLS:

None anticipated.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colorless liquid
pH: Not applicable.
MELTING POINT: 79.4°C
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.
OXIDIZING PROPERTIES: 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 – >2700 mg/kg bw

Dermal – Contains no ingredient(s) considered toxic.

Inhalation – >21000 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.

ASPIRATION HAZARD:

Contains no ingredient(s) applicable to this category.

SYMPTOMS RELATED TO CHARACTERISTICS:

Not determined.

NATIONAL TOXICOLOGY PROGRAM LISTING:

No ingredients listed.

INTERNATIONAL AGENCY FOR REACH ON CANCER LISTING:

No ingredients listed.

CARCINOGENICITY:

Contains no ingredient(s) applicable to this category.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:

Contains an ingredient applicable to this category.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:

Contains no ingredient(s) applicable to this category.

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

Not determined.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Algae – > 60 mg/L (category 3).

Fish – Contains no ingredient(s) considered toxic.

Crustacea – Contains no ingredient(s) considered toxic.

MOBILITY IN SOIL:

Not determined.

PERSISTENCE AND DEGRADEABILITY:

Not determined.

BIOACCUMULATIVE POTENTIAL:

Not determined.

OTHER ADVERSE EFFECTS:

None known.

RESULTS OF PBT and vPvB ASSESSMENT:

Not identified as a PBT or vPvB substance.

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.

SEWAGE DISPOSAL:

Do not dispose of mixture via sewage.

SPECIAL PRECAUTIONS FOR WASTE TREATMENT:

Not determined.

SECTION 14. TRANSPORT INFORMATION

HAZARD PLACARD: Not a regulated mixture.**UN NUMBER:** Not a regulated mixture.**LTD QTY:** Not a regulated mixture.**PRECAUTIONS:** Do not ship with excessive weight on top. Keep in original containers.**UN PROPER SHIPPING NAME:** Not regulated.**HAZARD CLASS:** Not regulated.**PACKAGING GROUP:** Not regulated.**ENVIRONMENTAL HAZARD:** No.**TRANSPORT IN BULK:** Not determined.

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SECTION 15. REGULATORY INFORMATION

EC No 1005/2009: Not determined.
EC No 850-2004: Not determined.
Directive 79/117/EEC: Not determined.

Special Regulations for mixture: None known.
Chemical safety assessment: Not assessed.
REACH Registration: Contact the responsible party listed in Section 1.

SECTION 16. OTHER INFORMATION

REVISION: 2
REVISION DATE: February 24, 2021

REVISION PURPOSE:
Revision of SDS contents and new template.

ABBREVIATIONS USED:

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
EC: European Commission
CAS: Chemical Abstracts Service
LC: Lethal concentration
LD: Lethal dose
UN: United Nations
PBT: Persistent, Bioaccumulative, and Toxic
vPvB: Very Persistent and Very Bioaccumulative
IBC: Intermediate Bulk Container

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