

## **Safety Data Sheet**

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 08-3802-9
 Version Number:
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 10/06/15
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**Product identifier** 

VF-45 Maintenance Cleaning Kits: VOL-0570, VOL-0571

ID Number(s):

78-8130-1169-5, 78-8130-1170-3, 80-6109-3861-7, 80-6111-4729-1, 80-6111-5915-5, 80-6111-6739-8, 80-6111-6740-6, 80-6111-6740

#### Recommended use

Volition Plug/Socket Cleaning Kit Assembly, Cleaning Solvent

Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Communication Markets Division

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

**Emergency telephone number** 

1-800-364-3577 or (651) 737-6501 (24 hours)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

18-2023-2

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VF-45 Maintenance Cleaning Kits: VOL-0570, VOL-0571 10/06/15



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## **SECTION 1: Identification**

#### 1.1. Product identifier

VF-45 (TM) HFE-Based Cleaning Fluid, VOL-0570A

### **Product Identification Numbers**

80-6109-3862-5, 80-6301-0072-7

#### 1.2. Recommended use and restrictions on use

### Recommended use

FOR INDUSTRIAL USE ONLY. NOT INTENDED FOR USE AS A MEDICAL DEVICE OR DRUG., Cleaning Solvent

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Communication Markets Division

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

## 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

## **SECTION 2: Hazard identification**

## 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

## Signal word

Not applicable.

#### **Symbols**

Not applicable.

### **Pictograms**

Not applicable.

## **Precautionary Statements**

## Disposal:

D 1 0 1

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

#### 2.3. Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
METHYL NONAFLUOROBUTYL ETHER	163702-07-6	20 - 80
METHYL NONAFLUOROISOBUTYL ETHER	163702-08-7	20 - 80

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **Inhalation:**

No need for first aid is anticipated.

#### **Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

No need for first aid is anticipated.

## 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

## 4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition.

### 5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not breathe thermal decomposition products. Avoid skin contact with hot material. For industrial or professional use only. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from strong bases.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
METHYL	163702-07-	AIHA	TWA:750 ppm	
NONAFLUOROBUTYL ETHER	6			
METHYL	163702-08-	AIHA	TWA:750 ppm	
NONAFLUOROISOBUTYL	7			
ETHER				

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

## 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

During heating:

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

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Full Face Shield Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### **Respiratory protection**

#### During heating:

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

#### Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

General Physical Form:

Specific Physical Form:

Liquid liquid

Odor, Color, Grade: Clear, colorless, liquid. Slight ethereal odor.

Odor thresholdNo Data AvailablepHNot ApplicableMelting point-135 °C

Melting point-135 °CBoiling Point61 °C [@ 760 mmHg]Flash PointNot Applicable

**Evaporation rate** 49 [*Ref Std:* BUOAC=1]

Flammability (solid, gas) Not Applicable

Flammable Limits(LEL) [Details: NONE acc to ASTM E681-94, @100C]

Flammable Limits(LEL)

No Data Available

Flammable Limits(UEL) [Details: NONE acc to ASTM E681-94, @100C]

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

No Data Available
202 mmHg [@ 25 °C]
8.6 [Ref Std: AIR=1]

**Density** 1.5 g/ml

Specific Gravity 1.5 [Ref Std: WATER=1]

**Solubility In Water** < 12 ppm

Solubility- non-water

Partition coefficient: n-octanol/ water

No Data Available
No Data Available

**Autoignition temperature** 405 °C [Details: (ASTM E659-84)]

Decomposition temperatureNo Data AvailableViscosity0.6 centipoise [@ 23 °C]Average particle sizeNo Data AvailableBulk densityNo Data Available

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Hazardous Air PollutantsNo Data AvailableMolecular weightNo Data AvailableVolatile Organic Compounds[Details: Exempt]

Percent volatile 100 %

Softening pointNo Data AvailableVOC Less H2O & Exempt Solvents[Details: Exempt]

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Not determined

## 10.5. Incompatible materials

Strong bases

## 10.6. Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

Hydrogen Fluoride At Elevated Temperatures - extreme conditions of

heat

Perfluoroisobutylene (PFIB) At Elevated Temperatures - extreme conditions of

heat

If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

## **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

## 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

### **Inhalation:**

No health effects are expected.

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#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

#### **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

## **Ingestion:**

No known health effects.

## **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Inhalation-		No data available; calculated ATE > 50 mg/l
	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
METHYL NONAFLUOROISOBUTYL ETHER	Inhalation-	Rat	LC50 > 1,000 mg/l
	Vapor (4		
	hours)		
METHYL NONAFLUOROISOBUTYL ETHER	Ingestion	Rat	LD50 > 5,000 mg/kg
METHYL NONAFLUOROBUTYL ETHER	Inhalation-	Rat	LC50 > 1,000 mg/l
	Vapor (4		
	hours)		
METHYL NONAFLUOROBUTYL ETHER	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
METHYL NONAFLUOROISOBUTYL ETHER	Rabbit	No significant irritation
METHYL NONAFLUOROBUTYL ETHER	Rabbit	No significant irritation

**Serious Eye Damage/Irritation** 

Name	Species	Value
METHYL NONAFLUOROISOBUTYL ETHER	Rabbit	No significant irritation
METHYL NONAFLUOROBUTYL ETHER	Rabbit	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
METHYL NONAFLUOROISOBUTYL ETHER	Guinea	Not sensitizing
	pig	
METHYL NONAFLUOROBUTYL ETHER	Guinea	Not sensitizing
	pig	

## **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity** 

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Name	Route	Value
METHYL NONAFLUOROISOBUTYL ETHER	In Vitro	Not mutagenic
METHYL NONAFLUOROISOBUTYL ETHER	In vivo	Not mutagenic
METHYL NONAFLUOROBUTYL ETHER	In Vitro	Not mutagenic
METHYL NONAFLUOROBUTYL ETHER	In vivo	Not mutagenic

#### Carcinogenicity

For the component/components, either no data are currently available or the data are not sufficient for classification.

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
METHYL NONAFLUOROISOBUTYL ETHER	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROISOBUTYL ETHER	Inhalation	Not toxic to female reproduction	Rat	NOAEL 129 mg/l	1 generation
METHYL NONAFLUOROISOBUTYL ETHER	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROISOBUTYL ETHER	Inhalation	Not toxic to male reproduction	Rat	NOAEL 129 mg/l	1 generation
METHYL NONAFLUOROISOBUTYL ETHER	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 307 mg/l	during gestation
METHYL NONAFLUOROBUTYL ETHER	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROBUTYL ETHER	Inhalation	Not toxic to female reproduction	Rat	NOAEL 129 mg/l	1 generation
METHYL NONAFLUOROBUTYL ETHER	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROBUTYL ETHER	Inhalation	Not toxic to male reproduction	Rat	NOAEL 129 mg/l	1 generation
METHYL NONAFLUOROBUTYL ETHER	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 307 mg/l	during gestation

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
METHYL NONAFLUOROISOBUT YL ETHER	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 913 mg/l	10 minutes
METHYL NONAFLUOROISOBUT YL ETHER	Inhalation	cardiac sensitization	All data are negative	Dog	NOAEL 913 mg/l	10 minutes
METHYL NONAFLUOROBUTYL ETHER	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 913 mg/l	10 minutes
METHYL NONAFLUOROBUTYL ETHER	Inhalation	cardiac sensitization	All data are negative	Dog	NOAEL 913 mg/l	10 minutes

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
METHYL NONAFLUOROISOBUT YL ETHER	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 155 mg/l	13 weeks
METHYL NONAFLUOROISOBUT YL ETHER	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 129 mg/l	11 weeks
METHYL NONAFLUOROISOBUT YL ETHER	Inhalation	heart   skin   endocrine system   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or	All data are negative	Rat	NOAEL 155 mg/l	13 weeks

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		bladder   respiratory system				
METHYL NONAFLUOROISOBUT YL ETHER	Ingestion	endocrine system   liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROISOBUT YL ETHER	Ingestion	heart   hematopoietic system   immune system   nervous system   eyes   kidney and/or bladder   respiratory system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROBUTYL ETHER	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 155 mg/l	13 weeks
METHYL NONAFLUOROBUTYL ETHER	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 129 mg/l	11 weeks
METHYL NONAFLUOROBUTYL ETHER	Inhalation	heart   skin   endocrine system   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	All data are negative	Rat	NOAEL 155 mg/l	13 weeks
METHYL NONAFLUOROBUTYL ETHER	Ingestion	endocrine system   liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYL NONAFLUOROBUTYL ETHER	Ingestion	heart   hematopoietic system   immune system   nervous system   eyes   kidney and/or bladder   respiratory system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days

### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

## **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during

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incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

## **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

## **SECTION 15: Regulatory information**

## 15.1. US Federal Regulations

Contact 3M for more information.

## 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

## **15.3.** Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

## 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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## **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 3 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### **HMIS Hazard Classification**

**Health:** 0 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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