

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

| SECTION 1: Identification | | | | | |
|---|---------------------------------------|----------------|----------------|----------------|--|
| 1.1. Product ident 3M [™] Novec [™] 711 | ifier IPA DL Engineered Flu | uid | | | |
| Product Identificati LB-IHFE-71IP-A | on Numbers 98-0212-3260-2 | 98-0212-3261-0 | 98-0212-3262-8 | XI-0038-0001-2 | |
| 1.2. Recommended use and restrictions on use | | | | | |

Intended Use

For Industrial Use Only. Not Intended For Use As A Medical Device Or Drug.

Specific Use

Cleaning, drying and rinse agent for co-solvents and degreasers.

Restrictions on use

NovecTM Engineered Fluids are used in a wide variety of applications, including but not limited to precision cleaning of medical devices and as lubricant deposition solvents for medical devices. When the product is used for applications where the finished device is implanted into the human body, no residual Novec solvent may remain on the parts. It is highly recommended that the supporting test results and protocol be cited during FDA registration. 3M Electronics Markets Materials Division (EMMD) will not knowingly sample, support, or sell its products for incorporation in medical and pharmaceutical products and applications in which the 3M product will be temporarily or permanently implanted into humans or animals. The customer is responsible for evaluating and determining that a 3M EMMD product is suitable and appropriate for its particular use and intended application of a 3M product. Because many of these conditions are uniquely within the user's knowledge and control, it is essential that the user evaluate and determine whether the 3M product is suitable and appropriate for a particular use and intended application, and complies with all local applicable laws, regulations, standards, and guidance.

1.3. Supplier's details

| Company: | 3M Canada Company | |
|------------|--|---------|
| Division: | Electronics Materials Solutions Division | |
| Address: | 1840 Oxford Street East, Post Office Box 5757, London, Ontario | N6A 4T1 |
| Telephone: | (800) 364-3577 | |
| Website: | www.3M.ca | |

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC):

(613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Physical Hazards Not Otherwise Classified - Category 1.

2.2. Label elements

Signal word Danger

Symbols Exclamation mark |

Pictograms



Hazard statements In use, may form flammable/explosive vapour-air mixture.

Precautionary statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3. Other hazards

May cause thermal burns.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---------------------------------|-------------|---------|---|
| Methyl nonafluoroisobutyl ether | 163702-08-7 | 50 - 90 | Propane, 2-(difluoromethoxymethyl)- |
| | | | 1,1,1,2,3,3,3-heptafluoro - |
| Methyl nonafluorobutyl ether | 163702-07-6 | 5 - 45 | Butane, 1,1,1,2,2,3,3,4,4-nonafluoro-4- |
| | | | methoxy- |
| Isopropyl alcohol | 67-63-0 | 4 - 5 | 2-Propanol |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. 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

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition. No closed-cup flash point but flam/expl. vapor air mixture Material displays no closed-cup flash point but may form flammable/explosive vapor air mixture.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|-------------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Fluoride | During Combustion |

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

Keep away from sparks/flames/extreme heat Keep away from sparks, flames, and extreme heat. Evacuate area. Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Eliminate ignition sources when cleaning spill Eliminate all potential ignition sources when cleaning up spill. 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. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from sparks/flames/extreme heat Keep away from sparks, flames, and extreme heat.

7.2. Conditions for safe storage including any incompatibilities

Store at temperatures not exceeding 38C/100F Store away from strong bases. Store away from oxidizing agents.

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 | Additional Comments |
|---------------------------------|------------|--------|--------------------------|---------------------|
| Methyl nonafluorobutyl ether | 163702-07- | AIHA | TWA:750 ppm | |
| | 6 | | | |
| Methyl nonafluoroisobutyl ether | 163702-08- | AIHA | TWA:750 ppm | |
| | 7 | | | |
| Isopropyl alcohol | 67-63-0 | ACGIH | TWA:200 ppm;STEL:400 ppm | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Provide ventilation adequate to maintain vapour concentration below lower explosive concentration.

8.2.2. Personal protective equipment (PPE)

Eve/face protection

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: Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

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.

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

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

| Physical state | Liquid | |
|---|---|--|
| Specific Physical Form: | Liquid | |
| | | |
| Colour | Colourless | |
| Odour | Slight Alcohol | |
| Odour threshold | No Data Available | |
| рН | Not Applicable | |
| Melting point/Freezing point | Not Applicable | |
| Boiling point | 54 °C | |
| Flash Point | No flash point [Details: Tested according to ASTM method D56- | |
| | 87] | |
| Evaporation rate | 58 [<i>Ref Std</i> :BUOAC=1] | |
| Flammability (solid, gas) | Not Applicable | |
| Flammable Limits(LEL) | 4 % [Details: Tested according to ASTM Method E681-94] | |
| Flammable Limits(UEL) | 16.7 % [Details: Tested according to ASTM Method E681-94] | |
| Vapour Pressure | 27,597.7 Pa [@ 25 °C] | |
| Vapour Density and/or Relative Vapour Density | 7.1 [<i>Ref Std</i> :AIR=1] | |
| Density | 1.48 g/ml | |
| Relative density | 1.48 [<i>Ref Std</i> :WATER=1] | |
| Water solubility | Slight (less than 10%) | |
| Solubility- non-water | No Data Available | |
| Partition coefficient: n-octanol/ water | No Data Available | |
| Autoignition temperature | 443 °C [Details: ASTM E659 Method] | |
| Decomposition temperature | Not Applicable | |
| Viscosity/Kinematic Viscosity | <=10 mPa-s [@ 23 °C] | |
| Volatile Organic Compounds | 67 g/l [Test Method:South Cost Air Qual Mgmt Dist] | |
| Percent volatile | 100 % | |
| VOC Less H2O & Exempt Solvents | 67 g/l [Test Method:calculated SCAQMD rule 443.1] | |
| Molecular weight | No Data Available | |

Nanoparticles

This material does not contain nanoparticles.

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 Sparks and/or flames

sparks and/or manies

10.5. Incompatible materials

Strong bases Strong oxidizing agents

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|-------------------------------|--|
| Carbon monoxide | At Elevated Temperatures - extreme conditions of |
| | heat |
| Carbon dioxide | At Elevated Temperatures - extreme conditions of |
| | heat |
| Hydrogen Fluoride | At Elevated Temperatures - extreme conditions of |
| | heat |
| Perfluoroisobutylene (PFIB) | At Elevated Temperatures - extreme conditions of |
| | heat |
| Toxic Vapor, Gas, Particulate | At Elevated Temperatures |
| | |

Refer to section 5.2 for hazardous decomposition products during combustion.

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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

During heating: Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

Eye Contact:

During heating: Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Methyl nonafluoroisobutyl ether | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Methyl nonafluoroisobutyl ether | Inhalation- Vapor (4 hours) | Rat | LC50 > 1,000 mg/l |
| Methyl nonafluoroisobutyl ether | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Methyl nonafluorobutyl ether | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Methyl nonafluorobutyl ether | Inhalation- Vapor (4 hours) | Rat | LC50 > 1,000 mg/l |
| Methyl nonafluorobutyl ether | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Isopropyl alcohol | Dermal | Rabbit | LD50 12,870 mg/kg |
| Isopropyl alcohol | Inhalation- Vapor (4 hours) | Rat | LC50 72.6 mg/l |
| Isopropyl alcohol | Ingestion | Rat | LD50 4,710 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 |
| Isopropyl alcohol | Multiple | No significant irritation |
| | animal | |
| | species | |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------------------------|---------|---------------------------|
| Methyl nonafluoroisobutyl ether | Rabbit | No significant irritation |
| Methyl nonafluorobutyl ether | Rabbit | No significant irritation |
| Isopropyl alcohol | Rabbit | Severe irritant |

Skin Sensitization

| Name | Species | Value |
|---------------------------------|---------|----------------|
| Methyl nonafluoroisobutyl ether | Guinea | Not classified |
| | pig | |
| Methyl nonafluorobutyl ether | Guinea | Not classified |
| | pig | |
| Isopropyl alcohol | Guinea | Not classified |
| | pig | |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| 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 |
| Isopropyl alcohol | In Vitro | Not mutagenic |
| Isopropyl alcohol | In vivo | Not mutagenic |

Carcinogenicity

| Route | Species | Value |
|------------|---------|---|
| Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| | X 1 1 | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---------------------------------|------------|--|---------|------------------------|-----------------------------|
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for female reproduction | Rat | NOAEL 129 mg/l | 1 generation |
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for male reproduction | Rat | NOAEL 129 mg/l | 1 generation |
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for development | Rat | NOAEL 307 mg/l | during gestation |
| Methyl nonafluorobutyl ether | Inhalation | Not classified for female reproduction | Rat | NOAEL 129 mg/l | 1 generation |
| Methyl nonafluorobutyl ether | Inhalation | Not classified for male reproduction | Rat | NOAEL 129 mg/l | 1 generation |
| Methyl nonafluorobutyl ether | Inhalation | Not classified for development | Rat | NOAEL 307 mg/l | during gestation |
| Isopropyl alcohol | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during organogenesi s |
| Isopropyl alcohol | Inhalation | Not classified for development | Rat | LOAEL 9 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 nonafluoroisobutyl ether | Inhalation | nervous system | Not classified | Dog | LOAEL 913 mg/l | 10 minutes |
| Methyl nonafluoroisobutyl ether | Inhalation | cardiac sensitization | Not classified | Dog | NOAEL 913 mg/l | 10 minutes |
| Methyl nonafluorobutyl ether | Inhalation | nervous system | Not classified | Dog | LOAEL 913 mg/l | 10 minutes |
| Methyl nonafluorobutyl ether | Inhalation | cardiac sensitization | Not classified | Dog | NOAEL 913 mg/l | 10 minutes |
| Isopropyl alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Isopropyl alcohol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Isopropyl alcohol | Inhalation | auditory system | Not classified | Guinea pig | NOAEL 13.4 mg/l | 24 hours |
| Isopropyl alcohol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|------------------------------------|------------|---|----------------|---------|-------------------|----------------------|
| Methyl nonafluoroisobutyl ether | Inhalation | liver | Not classified | Rat | NOAEL 155 mg/l | 13 weeks |
| Methyl nonafluoroisobutyl ether | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 129 mg/l | 11 weeks |
| Methyl nonafluoroisobutyl ether | Inhalation | heart skin endocrine system gastrointestinal tract hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 155 mg/l | 13 weeks |
| Methyl nonafluoroisobutyl | Ingestion | endocrine system | Not classified | Rat | NOAEL | 28 days |

| ether | | liver heart hematopoietic system immune system nervous system eyes kidney and/or bladder respiratory system | | | 1,000 mg/kg/day | |
|---------------------------------|------------|---|----------------|-----|-----------------------------|-----------|
| Methyl nonafluorobutyl ether | Inhalation | liver | Not classified | Rat | NOAEL 155 mg/l | 13 weeks |
| Methyl nonafluorobutyl ether | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 129 mg/l | 11 weeks |
| Methyl nonafluorobutyl ether | Inhalation | heart skin endocrine system gastrointestinal tract hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 155 mg/l | 13 weeks |
| Methyl nonafluorobutyl ether | Ingestion | endocrine system liver heart hematopoietic system immune system nervous system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Isopropyl alcohol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.3 mg/l | 24 months |
| Isopropyl alcohol | Inhalation | nervous system | Not classified | Rat | NOAEL 12 mg/l | 13 weeks |
| Isopropyl alcohol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 400 mg/kg/day | 12 weeks |

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

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

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. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. 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 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 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 new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

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.

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

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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3M Canada SDSs are available at www.3M.ca