



Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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| Issue Date: | 07/21/21 | Supersedes Date: | 02/17/21 |

SECTION 1: Identification

1.1. Product identifier

3M™ Novec™ Electronic Degreaser

Product Identification Numbers

98-0212-4889-7, 98-0212-4890-5
7010305874, 7100067835

1.2. Recommended use and restrictions on use

Recommended use

Electronic Degreaser

Restrictions on use

For Industrial Use only. Not intended for consumer sale or use. Not intended for use as a medical device or drug.

1.3. Supplier's details

| | |
|----------------------|--|
| MANUFACTURER: | 3M |
| DIVISION: | Electronics Materials Solutions 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

Gas Under Pressure: Liquefied gas.

Serious Eye Damage/Irritation: Category 2B.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Gas cylinder | Exclamation mark |

Pictograms

**Hazard Statements**

Contains gas under pressure; may explode if heated.

Causes eye irritation.
May cause drowsiness or dizziness.

Precautionary Statements**Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Protect from sunlight. Store in a well-ventilated place.
Store locked up.

Disposal:

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

Supplemental Information:

Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---------------------------------|-------------|------------------------|
| 1,2-Trans-Dichloroethylene | 156-60-5 | 65 - 75 Trade Secret * |
| Methyl nonafluoroisobutyl ether | 163702-08-7 | 16.5 - 27 |
| Methyl nonafluorobutyl ether | 163702-07-6 | 3 - 13.5 |
| Carbon Dioxide | 124-38-9 | <= 5 |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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:

Wash with soap and water. If you feel unwell, 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:

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

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

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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

Closed containers exposed to heat from fire may build pressure and explode. Exposure to extreme heat can give rise to thermal decomposition.

5.3. Special protective actions for fire-fighters

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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. Store work clothes separately from other clothing, food and tobacco products. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on

skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) 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 in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. 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 |
|---------------------------------|-------------|--------|-----------------------------|---------------------|
| Carbon Dioxide | 124-38-9 | ACGIH | TWA:5000 ppm;STEL:30000 ppm | |
| Carbon Dioxide | 124-38-9 | OSHA | TWA:9000 mg/m3(5000 ppm) | |
| 1,2-Trans-Dichloroethylene | 156-60-5 | ACGIH | TWA:200 ppm | |
| Methyl nonafluorobutyl ether | 163702-07-6 | AIHA | TWA:750 ppm | |
| Methyl nonafluoroisobutyl ether | 163702-08-7 | AIHA | TWA:750 ppm | |

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

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

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

No chemical protective gloves are required.

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:

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

Organic vapor respirators may have short service life.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Color

Liquid
Colorless

Specific Physical Form:

Aerosol

Odor

Slight Odor

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

Boiling Point

43 °C

Flash Point

No flash point

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

6.7 % volume

Flammable Limits(UEL)

13.7 % volume

Vapor Pressure

330 mmHg

Vapor Density

No Data Available

Density

1.28 g/ml

Specific Gravity

1.28 [Ref Std:WATER=1]

Solubility in Water

Negligible

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

396 °C

Decomposition temperature

No Data Available

Viscosity

0.45 centipoise

Molecular weight

No Data Available

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

Heat

10.5. Incompatible materials

Strong oxidizing agents

Strong bases

10.6. Hazardous decomposition products

Substance

Hydrogen Chloride

Condition

At Elevated Temperatures - - extreme conditions

| | |
|-----------------------------|---|
| Hydrogen Fluoride | of heat 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:

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

May cause additional health effects (see below).

Skin Contact:

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

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |

| | | | |
|---------------------------------|----------------------------|--------|------------------------------------|
| 1,2-Trans-Dichloroethylene | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1,2-Trans-Dichloroethylene | Inhalation-Vapor (4 hours) | Rat | LC50 95.6 mg/l |
| 1,2-Trans-Dichloroethylene | Ingestion | Rat | LD50 7,902 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 |
| Carbon Dioxide | Inhalation-Gas (4 hours) | Rat | LC50 > 53,000 ppm |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------------|---------|---------------------------|
| 1,2-Trans-Dichloroethylene | Rabbit | Minimal irritation |
| Methyl nonafluoroisobutyl ether | Rabbit | No significant irritation |
| Methyl nonafluorobutyl ether | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------------------------|---------|---------------------------|
| 1,2-Trans-Dichloroethylene | Rabbit | Moderate irritant |
| Methyl nonafluoroisobutyl ether | Rabbit | No significant irritation |
| Methyl nonafluorobutyl ether | Rabbit | No significant irritation |

Skin Sensitization

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

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 |
|---------------------------------|----------|---------------|
| 1,2-Trans-Dichloroethylene | In Vitro | Not mutagenic |
| 1,2-Trans-Dichloroethylene | In vivo | Not mutagenic |
| 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 |
|---------------------------------|------------|--|-------|-------------------|----------------------|
| 1,2-Trans-Dichloroethylene | Inhalation | Not classified for development | Rat | NOAEL 24 mg/l | during organogenesis |
| 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 |
| Carbon Dioxide | Inhalation | Not classified for male reproduction | Mouse | LOAEL 350,000 ppm | not available |
| Carbon Dioxide | Inhalation | Not classified for development | Rat | LOAEL 60,000 ppm | 24 hours |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------------------------|--------------|-----------------------------------|--|----------------|---------------------|--------------------------|
| 1,2-Trans-Dichloroethylene | Inhalation | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| 1,2-Trans-Dichloroethylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 1,2-Trans-Dichloroethylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 4,500 mg/kg | not applicable |
| 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 |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------------------------|--------------|--|----------------|----------------|-----------------------|--------------------------|
| 1,2-Trans-Dichloroethylene | Inhalation | endocrine system liver kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 16 mg/l | 90 days |
| 1,2-Trans-Dichloroethylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 14 weeks |
| 1,2-Trans-Dichloroethylene | Ingestion | blood liver | Not classified | Rat | NOAEL 125 mg/kg/day | 14 weeks |
| 1,2-Trans-Dichloroethylene | Ingestion | heart immune system respiratory system | Not classified | Rat | NOAEL 2,000 mg/kg/day | 14 weeks |
| 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 | Not classified | Rat | NOAEL 155 mg/l | 13 weeks |

| | | | | | | |
|---------------------------------|------------|--|----------------|-----|-----------------------|----------|
| | | system immune system muscles nervous system eyes kidney and/or bladder respiratory system | | | | |
| Methyl nonafluoroisobutyl 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 |
| 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 |
| Carbon Dioxide | Inhalation | heart bone, teeth, nails, and/or hair liver nervous system kidney and/or bladder respiratory system | Not classified | Rat | LOAEL 60,000 ppm | 166 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.

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. Facility must be capable of handling aerosol cans. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Gas under pressure

Health Hazards

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

This material contains a chemical which requires export notification under TSCA Section 12[b]:

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u> | <u>Status</u> |
|--|------------------|--|---------------|
| 1,2-Trans-Dichloroethylene | 156-60-5 | Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals | Applicable |

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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.

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.

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.

The NFPA Health code of 3 is due to emergency situations where the material may thermally decompose and release Hydrogen Fluoride and Perfluoroisobutylene (PFIB). During normal use conditions, please reference Section 2 and Section 11 of the SDS for additional health hazard information.

HMIS Hazard Classification**Health: 2 Flammability: 1 Physical Hazard: 0 Personal 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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