Announcements about PFAS phase out

This document contains:

- 3M Presse Release
- FSSA post
- ECHA post
- 3M Safety Data Sheet

3M to Exit PFAS Manufacturing by the End of 2025

ST. PAUL, Minn., Dec. 20, 2022 /PRNewswire/ -- 3M (NYSE: MMM) today announced it will exit per- and polyfluoroalkyl substance (PFAS) m across its product portfolio by the end of 2025. 3M's decision is based on careful consideration and a thorough evaluation of the evolving e accelerating regulatory trends focused on reducing or eliminating the presence of PFAS in the environment and changing stakeholder expectat

"This is a moment that demands the kind of innovation 3M is known for," said 3M chairman and chief executive officer Mike Roman. "While opportunity to lead in a rapidly evolving external regulatory and business landscape to make the greatest impact for those we serve. This act for continued sustainable growth by optimizing our portfolio, innovating for our customers, and delivering long-term value for our shareholders.

3M will:

- **Exit all PFAS manufacturing by the end of 2025:** 3M will discontinue manufacturing all fluoropolymers, fluorinated fluids, and PFAS-base transition for customers. 3M intends to fulfill current contractual obligations during the transition period.
- **Work to discontinue use of PFAS across our product portfolio by the end of 2025:** We have already reduced our use of PFAS over development, and will continue to innovate new solutions for customers.

With these two actions, 3M is committing to innovate toward a world less dependent upon PFAS. 3M's products are safe for their intended u litigation by defending ourselves in court or through negotiated resolutions, all as appropriate.

Financial Information

As noted above, 3M will exit all PFAS manufacturing by the end of 2025. The current annual net sales of manufactured PFAS are approxir approximately 16%. In addition, as also noted above, 3M will work to discontinue the use of PFAS across our product portfolio by the end of 2 revenue. Over the course of the exit from PFAS manufacturing, 3M expects to incur related total pre-tax charges of approximately $1.3 bil amount below. Approximately 70-80% of the total is expected to be non-cash.

The company expects to take an estimated fourth quarter 2022 pre-tax charge in a range of $0.7 billion to $1.0 billion, primarily non-cash and r

3M intends to reflect the fourth quarter 2022 costs as an adjustment in arriving at results, adjusted for special items. Beginning in 2023, 3M PFAS in arriving at results, adjusted for special items.

About PFAS

PFAS are critical in the manufacture of many products that are important for modern life, including medical technologies, semiconductors products are safe and effective for their intended uses. Additional details are available on 3M's website, www.3M.com/PFAS.

About 3M

3M (NYSE: MMM) believes science helps create a brighter world for everyone. By unlocking the power of people, ideas and science to addresses the opportunities and challenges of our customers, communities, and planet. Learn how we're working to improve lives anc at @3M or @3MNews.

Please note that the company announces material financial, business, and operational information using the 3M investor relations website, SI webcasts. The company also uses the 3M news center and social media to communicate with our customers and the public about the con possible that the information 3M posts on the news center and social media could be deemed to be material information. Therefore, the c interested in 3M to review the information posted on 3M's news center and the social media channels, such as Twitter at @3M or @3MNews.

Forward-Looking Statements

This news release contains forward-looking information about 3M's financial results and estimates and business prospects that involve subs statements by the use of words such as "anticipate," "estimate," "expect," "aim," "project," "intend," "plan," "believe," "will," "should," "could," "ta meaning in connection with any discussion of future operating or financial performance, future costs to be incurred or business plans or p results to differ materially are the following: (1) worldwide economic, political, regulatory, capital markets and other external conditions and o natural and other disasters or climate change affecting the operations of the Company or its customers and suppliers; (2) risks related to public with the coronavirus (COVID-19); (3) foreign currency exchange rates and fluctuations in those rates; (4) liabilities related to certain fluoroch related products and chemistries, and claims and governmental regulatory proceedings and inquiries related to PFAS in a variety of juri developments that could occur in the legal and regulatory proceedings described in the Company's Annual Report on Form 10-K for the yea Current Report on Form 8-K dated April 26, 2022, and any subsequent quarterly reports on Form 10-Q (the "Reports"); (6) competitive con market acceptance of new product offerings; (8) the availability and cost of purchased components, compounds, raw materials and energy (inc shortages, increased demand or supply interruptions (including those caused by natural and other disasters and other events); (9) unanticipate of a global enterprise resource planning (ERP) system, or security breaches and other disruptions to the Company's information technology ir alliances, divestitures, and other unusual events resulting from portfolio management actions and other evolving business strategies, and execution, including scenarios where the Company generates fewer productivity improvements than estimated; (12) financial market risks that defined benefit pension and postretirement plans; (13) the Company's credit ratings and its cost of capital; (14) tax-related external conditions, matters relating to the proposed spin-off of the Company's Health Care business, including whether the transaction will be completed, or if c the expected benefits will not be realized; the risk that the costs or dis-synergies will exceed the anticipated amounts; the ability to satis disruption; the diversion of management time; the impact of the transaction (or its pendency) on the Company's ability to retain talent; pote customers, suppliers, employees, regulators and other counterparties; the ability to realize the desired tax treatment (including whether an sought or obtained); the risk that any consents or approvals required will not be obtained; risks associated with financings that may be ur connection with the transaction; (16) matters relating to the voluntary chapter 11 proceedings of the Company's subsidiary Aearo Technolo including legal risks related to the chapter 11 proceedings; potential impacts to the Company's reputation and its relationships with cus counterparties and community members; potential impacts to the Company's liquidity or results of operations, including risks related to the an all of the Company's obligations to make payments to resolve such claims under the terms of its funding and indemnification agreement wit navigate the chapter 11 proceedings to obtain approval and consummation of a plan of reorganization; (17) matters relating to the Company's p of PFAS across its product portfolio (the "exit"), including the actual timing, costs and financial impact of such exit; the Company's ability to c potential governmental or regulatory actions relating to PFAS manufacturing and production, or the Company's exit plans; the Company's abil for the discontinued products, and the possibility that such substitutes will not achieve the anticipated or desired commercial or operational res plans; and the possibility that the planned exit will involve greater costs than anticipated, or otherwise have negative impacts on the Co counterparties. Changes in such assumptions or factors could produce significantly different results. A further description of these facto Concerning Factors That May Affect Future Results" and "Risk Factors" in Part I, Items 1 and 1A (Annual Report) and in Part I, Item 2 and Part I no obligation to update any forward-looking statements discussed herein as a result of new information or future events or developments.

Investor Contacts:
Bruce Jermeland, 651-733-1807
or
Diane Farrow, 612-202-2449

Other Topics

3M Company
Industry
Sustainability
Social Justice
Science Or STEM Advocacy
Product Launch
Science & Innovation
Partnerships
Environmental Stewardship
Diversity, Equity & Inclusion
Community
Careers

Contact Media Relations

Contact Media Email

Media Hotline: 651-733-8805

These contacts are intended only for the media. If you are not a member of the media, please call 1-888-3M HELPS (1-888-364-3577).

We will get back to you within one business day.

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Future Availability of Novec™ 1230 (FK-5-1-12)

3M Company recently issued a release stating the company's intention to exit per- and polyfluoroalkyl substance (PFAS) manufacturing and work to discontinue the use of PFAS across its product portfolio by the end of 2025. This was a business decision by 3M and will include the manufacturing of its 3M™ Novec™ 1230 Fire Protection Fluid - which is 3M's trademarked-version of the FK-5-1-12 fire suppression agent.

In the release, 3M states that "PFAS can be safely made and used" and its "products are safe for their intended use." The company commits to facilitating an orderly transition for customers. The announcement does pledge 3M will fulfill its current contractual obligations.

It should be noted there are other sources for FK-5-1-12 that are acceptable to the U.S. Environmental Protection Agency and listed in the agency's Significant New Alternatives Policy (SNAP) list. Replacement of Novec 1230™ in a UL Listed or FM Approved system with FK-5-1-12 from a different agent manufacturer should only be done with consent of the system manufacturer.

The Fire Suppression Systems Association will keep our members updated on future developments as more information becomes available.

January 10, 2023

Quick Links

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Training Program
Technical Publications
Membership Renewal
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Our Sponsors

Fire Suppression Systems Association (FSSA)
3601 East Joppa Road, Baltimore, MD 21234
admin@fssa.net | FAQ-ContactUs
Office Hours: Monday–Friday 8:00 am – 4:30 pm ET

Click here to renew your membership.

All news

ECHA receives PFASs restriction proposal from five national authorities

ECHA/NR/23/01

The national authorities of Denmark, Germany, the Netherlands, Norway and Sweden have submitted a proposal to ECHA to restrict per- and polyfluoroalkyl substances (PFASs) under REACH, the European Union's (EU) chemicals regulation. ECHA will publish the detailed proposal, one of the broadest in the EU's history, on 7 February 2023.

Helsinki, 13 January 2023 – The restriction proposal comes after the five authorities found risks in the manufacture, placement on the market and use of PFASs that are not adequately controlled and need to be addressed throughout the EU and the European Economic Area.

ECHA will run the required administrative checks before the proposed restriction and supporting documents are made available on 7 February 2023. On the same day, the national authorities will host a hybrid **media** event in Brussels from 11:00 to 12:30 (CET). An info session for industry, NGOs and other stakeholders will take place later.

Over the past three years, the five national authorities have investigated different PFASs, their uses and the risks they may pose to people and the environment. They held two public consultations to gather evidence on the use of these substances and examined all information received.

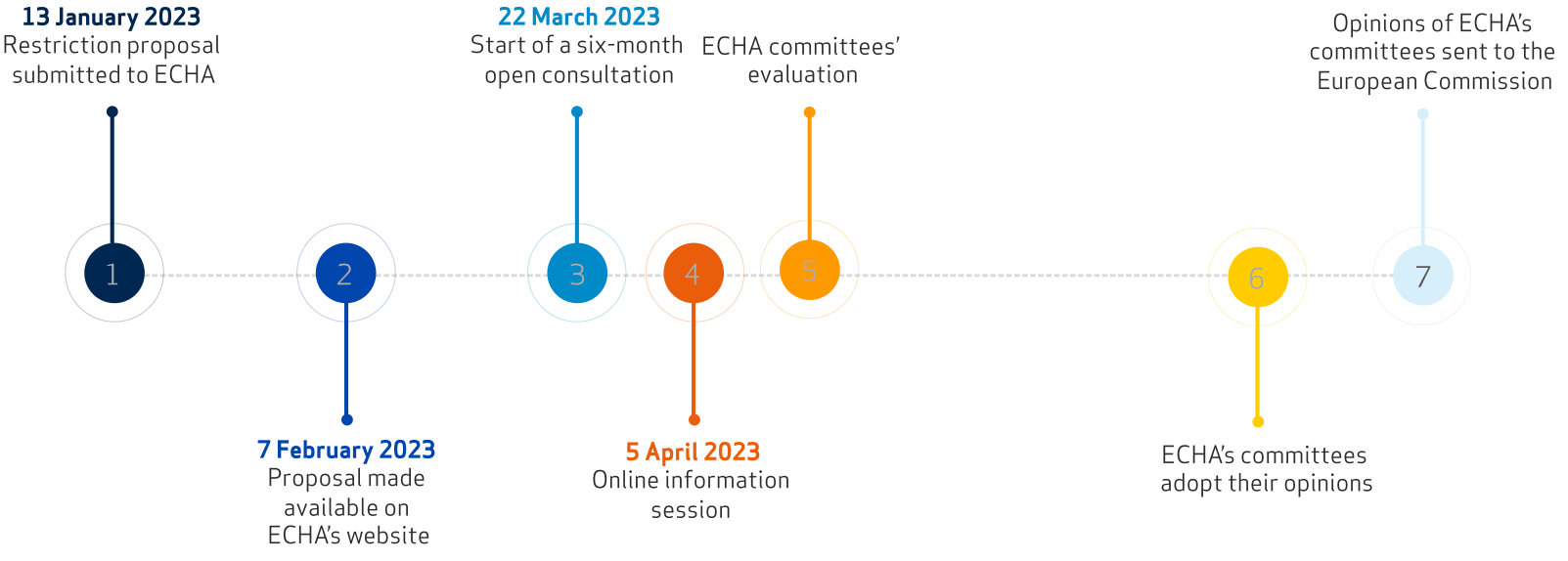
Next steps

ECHA's scientific committees for Risk Assessment (RAC) and for Socio-Economic Analysis (SEAC) will check that the proposed restriction meets the legal requirements of REACH in their meetings in March 2023. If it does, the committees will begin their scientific evaluation of the proposal.

A six-month consultation is planned to start on 22 March 2023. An online information session will be organised on 5 April 2023 to explain the restriction process and help those interested in participating in the consultation.

The opinions of RAC and SEAC are normally ready within 12 months of the start of the scientific evaluation, in accordance with REACH. However, in view of the complexity of the proposal and the extent of information that is expected from the consultation, the committees may need more time to finalise their opinions.

Once the opinions are adopted, they are sent to the European Commission, who together with the EU Member States will then decide on a potential restriction.



FURTHER INFORMATION

- Restriction intention: Restriction on the manufacture, placing on the market and use of PFASs
- Topical page on PFASs
- REACH restriction process
- National links:
  - DK: Forslag om begrænsing af PFAS indsendt til EU, 13 Jan 2023
  - DE: Beschränkungsvorschlag für PFAS an die Europäische Chemikalienagentur übermittelt, 13 Jan 2023
  - NL: Voorstel PFAS-verbod formeel ingediend in Europa, 13 Jan 2023
  - NO: Forslag om å forby PFAS er levert til Echa, 13 Jan 2023
  - SE: Sverige bakom lagförslag som ska stoppa PFAS-användningen inom EU, 13 Jan 2023
- Media conference
  - Tuesday 7 February from 11:00 to 12:30 CET
  - Registration is only available to media representatives
- Media contacts:
  - press(at)echa.europa.eu (for questions about the process)
  - presse(at)baua.bund.de (for questions about the proposal)

Do you want to be added to ECHA's media distribution list? Contact us at: press(at)echa.europa.eu. You can also subscribe to our weekly news bulletin.

View »

Safety Data Sheet

Document Group:	16-3425-2	**Version Number:**	31.00
Issue Date:	04/20/22	**Supercedes Date:**	10/05/21

SECTION 1: Identification

1.1. Product identifier
3M™ Novec ™ 1230 Fire Protection Fluid

Product Identification Numbers
98-0212-3203-2, 98-0212-3217-2, 98-0212-3414-5
7100010142, 7100024956, 7010321413

1.2. Recommended use and restrictions on use

Recommended use
Streaming and Flooding Fire Protection

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
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.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	756-13-8	>= 99.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
No need for first aid is anticipated.

Skin Contact:
No need for first aid is anticipated.

Eye Contact:
No need for first aid is anticipated.

If Swallowed:
No need for first aid is anticipated.

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.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Toxic Vapor/Gas	During Combustion

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
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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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. 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
Contents may be under pressure, open carefully. Do not breathe thermal decomposition products. For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store in a well-ventilated place. Store at temperatures not exceeding 38C/100F Store away from strong bases. Store away from amines.

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
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	756-13-8	Manufacturer determined	TWA:150 ppm(1940 mg/m3)	

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
For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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

Eye protection not required.

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: Neoprene
Nitrile Rubber

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 - Neoprene
Apron – Nitrile

Respiratory protection

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Color	Colorless
Specific Physical Form:	Liquid
Odor	Low Odor
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	-108 ºC
Boiling Point	49 ºC [@ 760 mmHg]
Flash Point	No flash point
Evaporation rate	> 1 Units not avail. or not appl. [*Ref Std:*BUOAC=1]
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	None detected
Flammable Limits(UEL)	None detected
Vapor Pressure	40.4 kPa [@ 25 ºC]
Vapor Density	11.6 [*Ref Std:*AIR=1]
Density	1.6 g/ml
Specific Gravity	1.6 [@ 68 ºF] [*Ref Std:*WATER=1]
Solubility in Water	Nil
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Viscosity	0.6 centipoise [@ 25 ºC]
Molecular weight	*No Data Available*
Volatile Organic Compounds	1600 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	100 %
VOC Less H2O & Exempt Solvents	1600 g/l [*Test Method:*calculated SCAQMD rule 443.1]

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
Light

10.5. Incompatible materials
Strong bases
Amines
Alcohols

10.6. Hazardous decomposition products

Substance	Condition
Hydrogen Fluoride	At Elevated Temperatures - extreme conditions of heat

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. Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

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.

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
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Ingestion	Professional judgement	LD50 estimated to be > 5,000 mg/kg
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation-Vapor (4 hours)	Rat	LC50 > 1,227 mg/l

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	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
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	In Vitro	Not mutagenic
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	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
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	Not classified for female reproduction	Rat	NOAEL 38.7 mg/l	premating & during gestation
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	Not classified for male reproduction	Rat	NOAEL 38.7 mg/l	premating & during gestation
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	Not classified for development	Rat	NOAEL 39.5 mg/l	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure

						Duration
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	nervous system	Not classified	Rat	NOAEL 100,000 ppm	2 hours
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	cardiac sensitization	Not classified	Dog	Sensitization Negative	17 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1,1,1,2,2,4,5,5,5-NONAFLUORO-4-(TRIFLUOROMETHYL)-3-PENTANONE	Inhalation	liver | kidney and/or bladder | heart | endocrine system | hematopoietic system | muscles | nervous system | respiratory system | vascular system	Not classified	Rat	NOAEL 38.6 mg/l	90 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. Combustion products will include HF. 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
Not applicable

Health Hazards
Not applicable

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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 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. During normal use conditions, please reference Section 2 and Section 11 of the SDS for additional health hazard information.

HMIS Hazard Classification

Health: 0 **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).

Document Group:	16-3425-2	**Version Number:**	31.00
Issue Date:	04/20/22	**Supercedes Date:**	10/05/21

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