

FC25-PFHxAm

Ammonium Perfluorohexanoate

Revised 12-June-2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ammonium perfluorohexanoate, mixture of isomers
Catalog Number	FC25-PFHxAm
• CAS Number	21615-47-4
Relevant identified uses of the substance or mixture and uses advised against	Identified uses: Laboratory chemicals, Synthesis of substances
Supplier	Fluoryx Labs 3650 Research Way, #22 Carson City, NV 89706 USA
Emergency call (VelocityEHS):	+01-813-248-0585 (International) +1-800-255-3924 (USA)

2. HAZARDS INFORMATION

Classification of the substance or mixture

GHS Classification	Eye Irrit. 2A Causes severe eye irritation, H319 Skin Irrit. 2 Causes skin irritation, H315 STOT SE 3 May cause respiratory irritation, H335
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For the full text of the H-Statements mentioned in the Section, see Section 16

GHS Label elements, including precautionary statements

Pictogram
Signal word



Warning

Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statement(s)

P261 - Avoid breathing dust, mist, spray
 P264 - Wash skin thoroughly after handling
 P271 - Use only outdoors or in a well-ventilated area
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352 - If on skin: Wash with plenty of soap and water
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
 P321 - Specific treatment (see supplemental first aid instructions on this label)
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
 P405 - Store locked up

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms	Ammonium, 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoate, mixture of isomers 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid, ammonium salt
Chemical formula	C ₆ H ₄ F ₁₁ NO ₂
Molecular weight	331.08 g/mol
CAS number	21615-47-4
EC Number	244-479-6

Component	Classification	Concentration
Potassium perfluorohexane-1-sulfonate, mixture of isomers	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	≤ 100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing media	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
Special hazards arising from the substance or mixture	- Carbon oxides, hydrogen fluoride, nitrogen oxides.
Advice for firefighters	Wear gas tight chemically protective clothing in combination with self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
Further information	Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up	Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. and place in container for disposal according to local / national regulations (see section 13).
Reference to other sections	For disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place.
Specific end use(s)	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Appropriate engineering controls	Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of inadequate ventilation, wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.

Other information

Safety shoes. 29 CFR 1910.136: Foot Protection.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Solid, powder
Color	White

Safety Data

pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Auto-ignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Thermal Decomposition Temperature	No data available
Vapor Pressure	No data available
Density	No data available
Water Solubility	No data available
Partition Coefficient (<i>n</i> -octanol/water)	No data available
Relative Vapor Density (Air = 1)	No data available
Odor	No data available
Odor Threshold	No data available
Evaporation Rate	No data available
Refractive index	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral LD50	No data available
Inhalation LD50	No data available
Dermal LD50	No data available
Other information on acute toxicity	No data available

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation
Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available
Carcinogenicity	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity	No data available
Specific target organ toxicity (Globally Harmonized System)	
Single exposure	May cause respiratory irritation.
Repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber. Contact a licensed professional waste disposal service to dispose of this material. Contact Fluoryx Labs to return unused product.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. REGULATORY INFORMATION

TSCA Status	Listed.
EC Number	Listed.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	No SARA hazards.
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know Components	No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information:**Full text of H-phrases:**

Eye Irrit. 2A
 Skin Irrit. 2
 STOT SE 3

H315
 H319
 H335

Serious eye damage/eye irritation, Category 2A
 Skin corrosion/irritation Category 2
 Specific target organ toxicity (single exposure)
 Category 3
 Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation

NFPA health hazard

3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

0 - Materials that will not burn.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health

2 Moderate Hazard - Temporary or minor injury may occur

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Flammability

0 Minimal Hazard - Materials that will not burn

Physical

0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of MSDS