

Material Safety Data Sheet

FC01-N Perfluoroalkyl lodides (Narrow Distribution)

Revised 12-August-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification:

Product name: FC01-N

Chemical name: Perfluoroalkyl iodides (narrow distribution)

1-lodoperfluoroalkyls, mixture of chain lengths

Chemical formula: $F(CF_2CF_2)_nI$, n = 2, 3, 4, ...; mostly n = 4

 C_nF_mI ; n = 4,6,8,10...; m = 2n+1

Company Identification:

Distributor: Fuxin Hengtong Fluorine Chemicals Co., Ltd

Emergency call: +86-418-2558700

2. COMPOSITION AND INFORMATION ON COMPONENTS

Material	Molecular Weight	Weight Percent	EINECS #	CAS#
Perfluoroalkyl iodides	~610 (average)	> 98 %	207-025-8	25398-32-7

3. HAZARDS IDENTIFICATION

Emergency Overview:Remove victim from exposure and lie down. Never give anything by mouth to an unconscious person. If a person vomits when lying

on his back, place him in the side recovery position. When symptoms persist, or in all cases of doubt, seek medical advice.

Potential Effects of Exposure:

Dermal contact: Skin contact may cause skin irritation with discomfort or rash.

Inhalation: Inhalation may cause irritation of the nose and throat with sneezing,

sore throat, or runny nose.

Inhalation of large amounts of aerosolized respirable particles may cause pulmonary edema (body fluid in the lungs). Symptoms may be modest initially, followed in hours by severe shortness of breath

requiring prompt medical attention.

Eye contact: May cause eye irritation with discomfort, tearing or blurring of vision.

Carcinogenicity Information None of the components present in this material at concentrations

equal to or greater than 0.1% are listed by IARC, NTP, OSHA or

ACGIH as a carcinogen.

4. FIRST AID MEASURES



Potential Effects Of Exposure: Potential Exposure:

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and seek

medical attention.

Eye contact: Flush with copious amounts of water for at least 15 minutes. If

irritation persists, seek medical attention.

Skin contact: Remove contaminated clothing. Wash affected area with soap and

water. Rinse thoroughly. If irritation persists or other symptoms

are observed, seek medical advice.

Ingestion: Rinse out mouth and drink lots of water. Seek medical attention.

Notes to Physicians Activated charcoal mixture may be beneficial. Suspend 50 g

activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult. Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should only be used with special caution in situations of

emergency life support.

5. FIRE FIGHTING MEASURES

Flash Point: > 65 °C (closed cup)

Extinguishing Medium:Use fire-fighting measures which suit the environment and take into

account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving

organic materials. Use carbon dioxide or dry powder.

Protective Equipment: Wear self-contained breathing apparatus and protective clothing.

Hazardous Products of

Combustion May Include: Carbon monoxide, carbon dioxide, hydrogen fluoride (hydrofluoric

acid), hydrogen iodide (hydroiodic acid). These products may cause

severe eye, nose, and throat irritation or toxic effects.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear protective equipment including rubber gloves, and eye

protection. Evacuate personnel to safe areas.

Environmental Protection: Take precautions to ensure product does not contaminate the

ground or enter the drainage system.

Spill Clean-Up Mix with vermiculite or proprietary absorbent material and transfer to

sealed containers for disposal.

7. HANDLING AND STORAGE

Safe Handling: Avoid formation of respirable particles. Do not breathe vapors or

spray mist. Wash hands immediately after handling the product. Advice on protection against fire and explosion: do not spray on a

naked flame or any other incandescent material.

Storage: Store in tightly sealed containers in a cool, well-ventilated place.

Protect from moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION



Engineering Controls Keep container tightly closed. Use only with adequate ventilation.

Do not aerosolize or spray. Prevent leaks in high-pressure

systems that could create fine mists.

Personal Protective Equipment

Eye/face protection: Wear coverall chemical splash goggles. Additionally, wear a face

shield where the possibility exists for face contact due to splashing

or spraying of material.

Respirators: Where there is potential for airborne exposures, wear NIOSH

approved air supplied respiratory protection.

Protective clothing: Where there is potential for skin contact have available and wear as

appropriate impervious gloves, apron, pants, jacket, hood and

boots.

Exposure Guidelines

Exposure limits: Perfluoroalkyl iodides

PEL (OSHA): None Established TLV (ACGIH): None Established AEL* (DuPont): 10 mg/m³, 8 hour TWA

Other applicable exposure limits: lodine

PEL (OSHA): 0.1 ppm, 1 mg/m³, Ceiling TLV (ACGIH): Ceiling 0.1 ppm, 1.0 mg/m³

545.96 ppm, A4, 8 Hr. TWA

STEL 0.1 A4

lodides

0.1 mg/m³, 8 Hr. TWA, A4

AEL* (DuPont): None established

*AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 115-240 °C @ 760 mm Hg

Molecular Weight ~ 610 (average)

pH Acidic

Form Waxy liquid or semi- solid

Odorlodine (impurity)ColorPurple to pinkFlash Point> 65 °C (closed cup)Specific Gravity1.8 @ 70 °C

Thickening Point 35 – 50 °C Solubility in Water Negligible

10. STABILITY AND REACTIVITY

Chemical Stability Stable at normal temperatures and storage conditions.

Incompatibility with Other MaterialsNone reasonably foreseeable.

Decomposition Decomposes with heat.

Decomposition temperature: > 250 °C (> 482 °F)

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye,



nose, throat, and lung irritation or toxic effects.

Decomposes when exposed to UV light.

Polymerization Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

RTECS Number: Not listed

Acute Toxicity

LD50: No data reported Skin irritation: No data available Eye irritation: No data available

Human Experience: Excessive exposures may affect human health as follows:

Inhalation: Lungs: cough, shortness of breath. Symptoms may be delayed.

Skin contact: Irritation, discomfort, rash.

Excessive lachrymation, blurred vision, discomfort, irritation. Eye contact:

Ingestion: Nausea, weakness, and disturbance.

12. ECOLOGICAL EFFECT

General Prevent chemicals from entering the ground, water courses, or

drainage system.

13. DISPOSAL CONSIDERATIONS

Disposal should be via an approved contractor and should take full Disposal:

account of local regulations.

14. TRANSPORTATION INFORMATION

Mode DOT/IMDG/IATA

UN Number None. Non-hazardous for transport. Class (Subsidiary) None. Non-hazardous for transport. **Proper Shipping Name** None. Non-hazardous for transport. Hazard Label (Subsidiary) None. Non-hazardous for transport. **Packing Group** None. Non-hazardous for transport.

Shipping Hazard Label None. Non-hazardous for transport.

15. REGULATORY INFORMATION

EINECS Number: 207-025-8 CAS Number: 25398-32-7 **RTECS Number:** Not listed.

TSCA: Listed substance

Hazard Symbols:

Xi Irritant:





Risk phrases:

Safety phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

60 This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

HMIS (Hazardous Materials Identification System) Ratings

(scale 0-4)

Health (acute effects) = 1 Flammability = 1 Reactivity = 1

Legal Disclaimer:

For R&D use only. 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