

Zhejiang Fotech International Co., Ltd Material Safety Data Sheet

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

MATERIAL IDENTIFICATION

MSDS Number: FOTECH016 Molecular Weight: 152 Formula: CF3CH2CF3

TRADENAMES AND SYNONYMS

1, 1, 1, 3, 3, 3-Hexafluoropropane HFC-236fa

COMPANY IDENTIFICATION

MANUFACTURER/DISTRIBUTOR' NAME

Zhejiang Fotech International Co., Ltd. No.139, Renmin West RD., Jinhua, Zhejiang, P.R. China-321000 PHONE NUMBERS Product Information: +86-571-87918266 Medical Emergency: +86-571-87085066

2. COMPOSITION/INFROMATION ON INGREDIENTS

COMPONENTS

Material: 1, 1, 1, 3, 3, 3-Hexafluoropropane CAS Number: 690-39-1

3. HAZARDS IDENTIFICATION

Potential Health Effects

In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be



aware of asphyxiation.

4. FIRST AID MEASURES

SKIN CONTACT

In case of contact, flush with water. Get medical attention if irritation is present.

EYES CONTACT

In case of liquid contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician.

INHALATION

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

INGESTION

Ingestion is not considered a potential route of exposure.

5. FIRE-FIGHTING MEASURES

Specific hazards

Exposure to fire may cause containers to rupture/explode. Non flammable

Hazardous combustion products

If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Hydrogen fluoride, Carbon monoxide and Carbonyl fluoride.

EXTINGUISHING MEDIA

All known extinguish ants can be used.

FIRE FIGHTING INSTRUCTIONS

If possible, stop flow of product. Move away from the container and cool with water from a protected position.

Special protective equipment for fire fighters:

Use self-contained breathing apparatus and chemically protective clothing.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.

Environmental precautions

Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

Clean up methods

Ventilate area.

7. HANDLING AND STORAGE

GENERAL

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place.

8. EXOPSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed. Vapors are heavier than air posing a hazard of asphyxia if they are trapped in enclosed or low places.

Personal Protection

Ensure adequate ventilation. Do not smoke while handling product. Protect eyes, face and skin from liquid splashes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling point	-2 °C
Critical temperature	125 °C



Relative density, gas Relative density, liquid Vapour Pressure 20°C Solubility mg/l water Appearance/Colour Odor Other data 5.2 (air=1)
1.38 (water=1)
2.3 bar(a).
724 mg/l
Colourless gas
No odor warning properties.
Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10. STABILITY AND REACTIVITY

General

Stable under normal conditions. Thermal decomposition yields toxic products which can be corrosive in the presence of moisture.

11. TOXICOLOGICAL INFORMATION

General

In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. May produce irregular heart beat and nervous symptoms.

12. ECOLOGICAL INFORMATION

General

When discharged in large quantities may contribute to the greenhouse effect.

Global warming factor

6300 (CO2=1)

13. DISPOSAL CONSIDERATIONS

General

Avoid discharge to atmosphere. Do not discharge into any place where its accumulation could be dangerous. Refer to supplier's waste gas recovery programme. Contact supplier if guidance is required.



14. TRANSPORT INFORMATION

Shipping Information

UN Nr: 3163 Class: 2.0

Shipping Containers Cylinders Ton Tanks Tank Trucks

Other transport information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers ensure that they are firmly secured and:

- Cylinder valve is closed and not leaking
- Valve outlet cap nut or plug (where provided) is correctly fitted
- Valve protection device (where provided) is correctly fitted
- There is adequate ventilation.
- Compliance with applicable regulations.

15. REGULATORY INFORMATION

Number in Annex I of Dir 67/548	Not included in Annex I.
EC Classification	Not classified as dangerous preparation.
Labeling of cylinders	Symbols Label 2.2: non flammable non toxic gas

16. OTHER INFORMATION

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product that confirms to the specification, unless otherwise stated. In the case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and environment.

Responsibility for MSDS: MSDS Coordinator Zhejiang Fotech International Co., Ltd. No.139, Renmin West Rd., Jinhua, Zhejiang, P.R. China – 321000



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Indicates updated section.

End of MSDS