



# MATERIAL SAFETY DATA SHEET

**FE-36**

Issue Date: 01-10-2014

## 1. Product and Company Identification

<b>Material name</b>	<b>FE-36</b>
<b>Version #</b>	01
<b>Revision date</b>	01-10-2014
<b>CAS #</b>	690-39-1
<b>Product use</b>	Fire extinguishing agent
<b>Manufacturer / Importer / Supplier</b>	
<b>Name</b>	Tyco Fire Protection Products
<b>Address</b>	One Stanton Street Marinette, WI 54143-2542
<b>Phone</b>	715-735-7411
<b>Internet</b>	<a href="http://www.ansul.com">http://www.ansul.com</a>
<b>Emergency Phone Number</b>	CHEMTREC 800-424-9300 or 703-527-3887

## 2. Hazards Identification

<b>Emergency overview</b>	DANGER  Contents under pressure. Heat may cause the containers to explode.
<b>Potential health effects</b>	
<b>Eyes</b>	Contact with liquefied gas might cause frostbites, in some cases with tissue damage.
<b>Skin</b>	Contact with liquefied gas might cause frostbites, in some cases with tissue damage.
<b>Inhalation</b>	Severe overexposure may cause cardiac sensitization and result in irregular rhythm. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
<b>Ingestion</b>	Not a likely route of entry.
<b>Potential environmental effects</b>	Ecological injuries are not known or expected under normal use.

## 3. Composition / Information on Ingredients

### 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Flush thoroughly with water for at least 15 minutes. Get medical assistance.
<b>Skin contact</b>	Wash frost-bitten areas with plenty of water. Do not remove clothing. Get medical attention if irritation persists after washing.
<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Not likely, due to the form of the product.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

### 5. Fire Fighting Measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
<b>Protective equipment for firefighters</b>	None known.

<b>Special protective equipment for fire-fighters</b>	None known.
<b>Specific methods</b>	None known.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

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## 6. Accidental Release Measures

<b>Personal precautions</b>	None known.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods for containment</b>	Move the cylinder to a safe and open area if the leak is irreparable.
<b>Methods for cleaning up</b>	Not applicable.
<b>Other information</b>	Clean up in accordance with all applicable regulations.

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## 7. Handling and Storage

<b>Handling</b>	When using do not smoke. All equipment used when handling the product must be grounded. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.
<b>Storage</b>	Contents under pressure. Keep away from heat and sources of ignition. Keep at temperature not exceeding 49 °C. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Keep out of the reach of children.

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## 8. Exposure Controls / Personal Protection

<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.

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## 9. Physical & Chemical Properties

<b>Appearance</b>	
<b>Form</b>	Liquefied gas.
<b>Color</b>	Colorless.
<b>Odor</b>	Odorless.
<b>Physical state</b>	Gas.
<b>pH</b>	Not available.
<b>Melting point</b>	-144.4 °F (-98 °C)
<b>Freezing point</b>	-153.4 °F (-103 °C)
<b>Boiling point</b>	30.2 °F (-1.4 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	272.4 kPa
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1.37
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

**Decomposition temperature** Not available.  
**Molecular formula** C3H2F6

## 10. Chemical Stability & Reactivity Information

**Conditions to avoid** Aerosol containers are unstable at temperatures above 49°C.  
**Incompatible materials** This product may react with strong reducing agents. and Alkaline metals.

## 11. Toxicological Information

## 12. Ecological Information

**Persistence and degradability** Not available.  
**Partition coefficient (n-octanol/water)** Not available

## 13. Disposal Considerations

**Disposal instructions** This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### TDG

**Proper shipping name** LIQUEFIED GAS, N.O.S. (1,1,1,3,3,3)-Hexafluoropropane  
**Hazard class** 2.2  
**UN number** UN3163  
**Special provisions** 16



TDG

## 15. Regulatory Information

**WHMIS status** Non-controlled

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**HMIS® ratings**

Health: 1  
Flammability: 0  
Physical hazard: 0

**NFPA ratings**

Health: 1  
Flammability: 0  
Instability: 0

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Issue date**

01-10-2014