

# **Safety Data Sheet**

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name FE-36

# 1. Identification

1.1. Product Identifier

Product name FE-36

1.2. Other means of identification

Product code 419495 UN/ID no UN1044 Synonyms None

Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use No information available.

Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products

One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411

Contact point Product Stewardship at 1-715-735-7411

E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

## 2. Hazards Identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Gases Under Pressure - Compressed Gas

### 2.2. Label Elements

### Signal Word WARNING

#### **Hazard Statements**

Contains gas under pressure; may explode if heated





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#### **Precautionary Statements**

#### Storage

Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Hazards Not Otherwise Classified (HNOC)

Contact with product may cause frostbite.

#### 2.4. Other Information

## 3. Composition/information on Ingredients

#### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
1,1,1,3,3,3-Hexafluoropropane	690-39-1	60 - 100

## 4. First aid measures

#### 4.1. Description of first aid measures

General Advice Call 911 or emergency medical service. Remove and isolate contaminated clothing and

shoes.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately

if symptoms occur.).

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison

control center or physician immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

## 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Unconsciousness.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

## 5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



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### 5.2. Unsuitable Extinguishing Media

None.

#### 5.3. Specific Hazards Arising from the Chemical

None known.

**Hazardous Combustion** 

Products

Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

## 5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

OTHER INFORMATION Ventilate the area.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers,

basements or confined areas. See Section 12 for additional Ecological Information.

#### 6.3. Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and

safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

## 8. Exposure Controls/Personal Protection



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8.1. Control Parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

8.2. Appropriate Engineering Controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Ventilation**Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Physical State Compressed liquefied gas

Odor Characteristic Color Colorless

Odor Threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available

pH No data available
Melting point/freezing point No data available
Boiling point / boiling range No data available
Flash Point No data available
Evaporation Rate No data available
Flammability (solid, gas) No data available

Flammability limit in air

Kinematic viscosity

Upper flammability limit: No data available Lower flammability limit: No data available **Vapor Pressure** No data available **Vapor Density** No data available Specific gravity No data available No data available Water Solubility No data available Solubility in Other Solvents Partition coefficient No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available

## 10. Stability and Reactivity



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#### 10.1. Chemical Stability

Stable under recommended storage conditions.

#### 10.2. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

## 11. Toxicological Information

### 11.1. Information on Likely Routes of Exposure

#### **Product information**

**Inhalation** In high concentration the gas may cause a suffocation. Victim may not be aware of

asphyxiation. In confined or poorly ventilated areas, vapors can readily accumulate and can

cause unconsciousness and death.

**Eye Contact** Contact with product may cause frostbite.

**Skin contact**Contact with product may cause frostbite.

**Ingestion** Not an expected route of exposure.

#### **Component Information**

**Acute Toxicity** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,1,1,3,3,3-Hexafluoropropane	-	-	914000 ppm (rat) 1 hr.
690-39-1			

#### 11.2. Information on Toxicological Effects

**Symptoms** No information available.

#### 11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation
Serious eye damage/eye irritation
Sensitization
Germ Cell Mutagenicity

No information available.
No information available.
No information available.
No information available.

Carcinogenicity No information available.



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Reproductive Toxicity

Lack of oxygen during pregnancy has produced developmental abnormalities in humans

and experimental animals. No information available.

STOT - Single Exposure STOT - Repeated Exposure Target organ effects Aspiration Hazard

No information available. Respiratory System. No information available.

11.4. Numerical Measures of Toxicity - No information available

# 12. Ecological Information

### 12.1. Ecotoxicity

Not classified.

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### 12.2. Persistence and Degradability

No information available.

#### 12.3. Bioaccumulation

No information available.

### 12.4. Other Adverse Effects

No information available

## 13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Do not reuse container.

## 14. Transport Information

DOT

UN/ID no UN1044

Proper Shipping Name Fire extinguishers

**Description** UN1044, Fire extinguishers, 2.2

Hazard class2.2Special Provisions18, 110Emergency Response Guide126

Number

**TDG** 

UN/ID no UN1044

**Description** UN1044, Fire extinguishers, 2.2

Proper Shipping Name Fire extinguishers

Hazard class 2.2



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MEX

UN/ID no UN1044

**Description** UN1044, Fire extinguishers, 2.2

Proper Shipping Name Fire extinguishers

Hazard class 2.2

ICAO (air)

UN/ID no UN1044

**Description** UN1044, Fire extinguishers, 2.2

Proper Shipping Name Fire extinguishers

Hazard class 2.2 Special Provisions A19

IATA

UN/ID no UN1044

**Description** UN1044, Fire extinguishers, 2.2

Proper Shipping Name Fire extinguishers
Proper Shipping Name Fire extinguishers

Hazard class 2.2 ERG Code 2L Special Provisions A19

**IMDG** 

UN1044

**Description** UN1044, Fire extinguishers, 2.2

Proper Shipping Name Fire extinguishers
Proper Shipping Name Fire extinguishers

Hazard class 2.2 EmS-No F-C, S-V Special Provisions 225

### 15. Regulatory Information

#### 15.1. International Inventories

TSCA Complies
DSL/NDSL Complies
ENCS Complies
IECSC Complies
KECL Does not comply
PICCS Does not comply
AICS Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372



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### SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic health hazard No
Fire Hazard No
Sudden Release of Pressure Hazard Yes
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### 15.3. US State Regulations

#### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

### 16. Other information, including date of preparation of the last revision

<u>NFPA</u>	Health Hazards 0	Flammability 0	Instability 0	Physical and chemical
				properties -
HMIS	Health Hazards 0	Flammability 0	Physical Hazards 3	Personal Protection X

Revision date 27-Nov-2017

Revision note No information available.

### **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.

**End of Safety Data Sheet**