



## **Fire Industry Association**

Thames House, 29 Thames Street  
Kingston upon Thames, Surrey, KT1 1PH  
Phone: +44 (0) 20 8549 5855  
Website: [www.fia.uk.com](http://www.fia.uk.com)

# **Environmental Guidance – Class F Fire Extinguishers**

## **1. Introduction**

This Fact File is intended to give guidance on the environmental issues relating to class F fire fighting media. It covers the applicable legislation, how to handle the extinguishers/media at the customer's site, and looks at the available options for collection and disposal.

## **2. Environmental issues.**

The Groundwater Regulations are designed to prevent certain dangerous substances from causing direct or indirect pollution to groundwater (used as a source of drinking water).

## **3. Extinguishers on site**

### **3.1. Minimising the risk**

When installing and recommending fire extinguishers on site to meet a risk assessment, care should be taken to install the correct extinguisher for the correct risk.

### **3.2. Annual Service**

During the Annual Service the recommendations in the FETA Guide to servicing and/or the manufacturer's instructions should be followed. When the extinguisher is emptied, the class F solution contents (media) should be stored in an appropriate container before returning to the extinguisher. If the media requires replacing the discarded media should be kept in a container until all the extinguishers have been serviced. The collected media is from more than 3 extinguishers it should be collected for disposal by the methods approved by the manufacturer.

### **3.3. Discharge testing**

Discharge testing is now a contentious issue, the run off from the extinguisher cannot enter the groundwater system. Therefore previous practice of carrying out the discharge on the customer's site in areas where it could reach the ground water (e.g. car parks, grass, bare soil, rainwater drains or wasteland) is not permitted and could result in legal proceedings by the Environment Agency.

It could be possible to discharge small numbers of extinguisher in to the foul water system as described above but the practicality of discharging extinguishers down toilets needs to be considered.

## **4. Extinguishers off site/at service depot**

**Fact File No 0027**

#### **4.1. Collection**

There are a number of options available for the collection of class F media for disposal, and the practicality of each should be considered before agreeing a procedure for collecting and disposing of class F media.

- Collecting the class F media in a secure container in the technicians vehicle before transferring to a larger container at the service depot,
- Keeping the media in the extinguisher and replacing the old extinguisher with a new extinguisher. The extinguishers are returned to the service depot and emptied into a secure container for storage,
- Keeping the media in the extinguisher and replacing the old extinguisher with a new extinguisher. The old extinguishers are then collected from the customer's site by licensed waste disposal company.

#### **4.2. Storage**

Measures should be taken to ensure that any stored media cannot leak and reach groundwater.

The media should be stored in sealed containers.

#### **5. Disposal of media**

As class F media contains a mixture of chemicals, the manufacturer's instructions for disposal should be followed.

#### **6. Applicable Regulations**

Detailed information on the regulations that apply to fire extinguishers are given in Fact File 21 however below is a list of the regulations that you will need to comply with:

- **The Groundwater Regulations 1998**
- **Water Resources Act 1991**
- **Water Industries Act 1991**
- **Environmental Protection (Duty of Care) Regulations 1991**
- **Control of pollution (Amendment) Act 1989/ Controlled waste (registration of carriers & seizure of vehicles) Regulations 1991**

#### **7. Sources of Further information**

The following websites provide more information on environmental issues and legislation.

- Environment Agency  
<http://www.environment-agency.gov.uk/>
- Environment Agency NetRegs  
<http://www.netregs.gov.uk/>
- Envirowise  
<http://www.envirowise.gov.uk/>

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#### **DISCLAIMER**

The information set out in this document is believed to be correct in the light of information currently available but it is not guaranteed and neither the Fire Industry Association nor its officers can accept any responsibility in respect of the contents or any events arising from use of the information contained within this document.