



Demolition Refurbishment Information Data Sheets

H8 PRODUCTS CONTAINING HALON GAS





Products Containing Halon Gas 16 05 04

Halon is a liquefied, compressed, halogenated hydrocarbon gas that extinguishes fire by chemically preventing combustion. Halon is a clean agent that was used in a variety of fire and explosion protection systems for buildings and assets as they are very effective, relatively safe for humans and leave no residue that may damage assets or sensitive equipment. As the highest ozone depleting substance (ODS), halon gas has been removed from fire protection systems since December 2003 except for critical uses, for example military and aviation. Practically all use of halon in portable and fixed fire and explosion protection systems has ceased. However, older un-serviced systems or extinguishers (green in colour) may still contain halon gas which will require de-gassing in a controlled environment at an approved facility before further treatment. Virgin, recycled or reclaimed halon gas is now banned from commercial use (topping up or servicing of systems) in all but critical systems and will require appropriate and specialist disposal. Halon gas is a hazardous wastes (absolute) and requires specialist treatment and handling by a competent person as defined by RAMS.

WASTE STREAMS

DISPOSAL

It is not possible to dispose halon gas in landfill.

RECOVERY

Halon gas should be incinerated at an appropriate and licensed high temperature facility.

RECYCLE

Products containing halon gas should only be recycled once halon gas has been safely removed. Recycling of halon gas was banned in December 2002.

RECLAIM

Products containing halon gas should only be reclaimed once halon gas has been safely removed. Reclamation and reuse of halon gas was banned in December 2002.

USAGE & PROBABLE LOCATIONS

Halon gas is used in a variety of fixed and portable fire and explosion suppressant systems to protect people, assets and sensitive equipment. The use of halon gas has been mostly banned since 2003, but may be found in older un-serviced systems commonly encountered during demolition and refurbishment. Products containing halon gas may be found in commercial, manufacturing, retail, hospitals, emergency services, petrochemical, marine, aviation, military and industrial buildings and assets including green fire extinguishers, storage areas, plant rooms, process plant, storage vessels, electronic equipment, computer and server equipment rooms, switch gear and enclosed electronic panels.

PERSONAL PROTECTIVE EQUIPMENT

PPE requirements indicated are for guidance purposes only. DRIDS has identified the PPE that is mandatory on all demolition projects and ones that may be required subject to site specific Risk Assessment & Method Statement (RAMS).







The following types of PPE are non mandatory but should be considered if necessary to the specific task













REMOVAL, SEGREGATION & STORAGE

Products and fire protection systems containing halon gas are banned in all but critical systems. If discovered, products containing halon gas need to be de-gassed at a specialist facility by an appropriately trained person and through a licensed business before final disposal. The contractor should also have a waste consignment premises code or if the site generates more than 500 kg, it will need to be registered as a hazardous waste producer. It is strictly illegal to dispose a halon fire extinguisher to landfill, or to discharge them into the atmosphere.

TOOLS

Specialist de-gassing equipment and containers, spanners, scaffold towers, power lifts, gas monitoring equipment, appropriate access and protective equipment.

FIXTURES. FITTINGS & CONNECTIONS

Products, extinguishers, cylinders and electrical equipment containing halon gases may be fixed in place with screws, nails, bolts, pins, straps, hangers or racks. Some require no fixings, are free standing, have been placed within cavities or are manufactured within electronic equipment or containers.

HEALTH & SAFETY

Subject to task-specific Risk Assessment & Method Statement (RAMS). Only handle products containing halon gases if appropriately trained, or use specialist contractors. Wear appropriately assessed clothing, gloves, eye protection and respiratory protective equipment when handling wastes containing halon gases to prevent inhalation, ingestion, irritation and abrasion. Use eye protection when using hand tools. Use appropriate access and protective equipment determined by RAMS.

FURTHER READING

Defra General Guidance on Ozone and F-Gas Regulations Fire Protection Recycling Services Chubb Halon Extinguisher Recycling and Disposal Service Fire and Safety Services Recycling Halon Extinguishers NetRegs List of Guidance on Managing Ozone and F-Gases

TRAINING

Working at Height

Manual Handling Safe Use of Hand Tools

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