

PENTSPRAY

PENTSPRAY@SAFETY

SAFETY DATA SHEET



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1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME Recommended use MANUFACTURER Address Phone no. Fax no. E-mail	PENTSPRAY Additive for extinguishers 3FFF LTD Unit C, Marconi Courtyard, Brunel Road, Earlstree ind est, Corby, Northants, NN17 4LT, UNITED KINGDOM +44(0)1536 202919 +44(0)1536 263641 enquiries@3fffuk.com
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation Hazardous components	Aqueous solution of ammonium phosphate and nitrogeous compounds /
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3. HAZARDS IDENTIFICATION

Health hazards Physical and chemical hazards Specific risks	/ Not flammable This product is not classified hazardous under European directive 1999/45/EC
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4. FIRST AID MEASURES

After skin contact After eye contact After swallowing	Wash off with water. Remove contaminated soaked clothing and rinse with water Flush eye with plenty of water for at least 10 minutes Wash mouth with water. Seek medical advice should pain occur and persist
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5. FIRE FIGHTING MEASURES

Extinguishing media Protective equipment for fire fighters	Not flammable Aqueous solution ; not to burn when exposed to heat
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental protection CLEANING MEASURES: Collecting Cleaning Disposal	Wear a respiratory equipment, gloves and goggles Absorb onto sand or other absorbent material and shovel into container for disposal Pump into clearly identified unbreakable containers Wash thoroughly with water Incineration according to local regulations
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7. HANDLING AND STORAGE

HANDLING: STORAGE: Technical measures Storage conditions Storage recommendations Packaging material Recommended Not advised Recommended sealing	Avoid to breathe vapours Storage area should contain accidental spill Sealed containers in normal cool warehouse Tanks in PE, PP Polyethylene, Polypropylene Mild steel, iron, aluminium, copper and its alloys Viton, Kevlar, Teflon
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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT : Hand protection Eye protection Body protection Respiratory protection HYGIENIC MEASURES:	Impermeable gloves (PVC) if continual handling Goggles Working clothes Breathing equipment DO NOT eat, drink or smoke while handling the product. Clean hands after working
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Physical form Colour / Odour PH at 10% vol. Freezing point Boiling point Flammability / oxidising / explosive properties Specific gravity at 20°C Solubility	Liquid Orange, faint ammonia smell 8.0 +/- 1.0 - 14°C > + 105 °C None 1180 +/- 20 Kg / m ³ Completely soluble in water
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10. STABILITY AND REACTIVITY

Thermal decomposition Hazardous reactions	Stable under normal conditions of use and storage Avoid contact with strong oxidising agents. Can generate ammonia
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11. TOXICOLOGICAL DATA

Acute toxicity Local effects	Not classified as toxic if swallowed Can be persistently irritating to eyes
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12. ECOLOGICAL DATA

ENVIRONMENTAL BEHAVIOUR: Biodegradation data ECOTOXICITY: Aquatic life toxicity	COD not available BOD5 not available Not expected according to our knowledge Expected to have adverse effects on environment if discharged in big quantities
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13. DISPOSAL CONDITIONS

PRODUCT: Prohibition Disposal PACKAGING: Prohibition Cleaning Disposal	Do not discharge in the environment Small amounts of product do not interfere with water treatment facilities. Big quantities should be treated as chemical waste according to local regulations Do not discharge in the environment Rinse with plenty of water Incineration or an agreed method for package recycling
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14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS Road - RID/ADR Sea - OMI/IMDG Air - ICAO/IATA	Non hazardous Non hazardous Non hazardous
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15. REGULATORY INFORMATION

LABELLING CE regulations Hazard symbols S phrases	Not classified / S20/21 : When using do not eat, drink or smoke
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16. OTHER INFORMATIONS

Rules of drafting Edition date Printing date	This Material Safety Data Sheet complies with ISO 11014-1. It is redacted in accordance to European directive 2001/58/EC 03/01/2003 01/10/2008
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PENTSPRAY

PENTSPRAY@TECNIK

Additive For Extinguishers



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CHARACTERISTICS

- † PENTSPRAY is a Synthetic Concentrate for class A fires, based on ammonium phosphate salts in aqueous solution.
It can be used at concentration level between **5%** and **15%** depending on the required efficiency.
- † PENTSPRAY is recommended for deep seated fires where the main risk is due to smouldering embers, such as EN 3 fire types.
Its ability to penetrate deeply into the solids prevents early fire restart.

PHYSICAL DATA

Appearance	Orange liquid with faint ammonia odour
Specific Gravity at 20°C	1.18 +/- 0.02 Kg/dm ³
Ph at 20°C	8.0 +/- 1.0
Viscosity at 20°C	10 +/- 5 cStokes
Viscosity at 0°C	30 +/- 5 cStokes
Freezing Point	- 14°C
Surface tension at 10%	45 +/- 5 mN/m

APPLICATION

- † PENTSPRAY can be used for all class A fires. Depending on the extinguisher size and type and the fire type A, we recommend dilutions from **5%** to **15%**. As a general rule, PENTSPRAY will be used at **10%** volume in tap water.
- † PENTSPRAY is compatible with AFFF additives for class B fire types.

WARRANTY & SERVICES

- † PENTSPRAY has a 2 years warranty in its original packaging and at storage temperatures -5°C / +40°C.
- † PENTSPRAY is offered in plastic drums 20L and 200L and in IBC's 1000L.

Safety Data (MSDS) is available upon simple request.

KEY

	Standard.	†	Extinguisher Application.
	Aviation.		Enclosed Space. High Expansion.
	Anti-Fuming.		Fire Service.
	Environmentally Friendly.		Alcohol Resistant.
	Anti-Freeze		Aviation/Protein.