



SAFETY DATA SHEET

Presto AFFF 3% (Premix 6%) ENG

Issued 2009-01-21

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Trade name Presto AFFF 3% (Premix 6%) ENG
Article type Fire extinguishing product
Supplier Presto
Street address Värmbolsvägen 2
Box 315
Box 315
641 23 Katrineholm
Sverige
Telephone 0150-76000
Fax 0150-76030
Manufacturer Fabrik chemischer Präparate von Dr. Richard Sthamer GmbH & Co. KG
Street address Liebigstrasse 5
D-22113 Hamburg
Tyskland
Telephone +49 40 736 168-0
Fax +49 40 736 168-31 (lab)

2. HAZARDOUS PROPERTIES

Information about dangerous properties Environment:
Can harm the aquatic fauna when entering surface waters.
Can harm the bacteria population in waste water treatment plants when entering the sewerage system.
Breathing is not possible whilst submerged in the foam. Take care when spraying people!
Safety phrases S24/25 - Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance additional information Fire extinguishing premixed solution based on fluorinated and non-fluorinated surfactants.

4. FIRST AID MEASURES

First aid in case of ingestion Seek medical advice. Do not induce vomiting (possible risk of suffocation due to formation of foam).
Show this material safety data sheet.
First aid in case of skin contact Rinse with water.
First aid in case of inhalation Move away from radius of action. Seek medical advice if symptoms occur.
First aid in case of eye contact Rinse thoroughly with running water. Seek medical advice if symptoms persist. Show this material safety data sheet.

5. FIRE-FIGHTING MEASURES

Additional information in case Not inflammable. The product is used as a fire extinguishing agent.



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5. FIRE-FIGHTING MEASURES

of fire

6. ACCIDENTAL RELEASE MEASURES

- Decontamination instruction** Absorb with liquid-binding material (sand, sawdust or universal binder). See also heading 13 of this MSDS.
- Personal precautions** Supply ventilation in enclosed spaces. Avoid eye and skin contact. See also heading 8 of this MSDS.
- Additional information** Environmental precautions: Avoid if possible penetration of aqueous systems and ground.

7. HANDLING AND STORAGE

- Preventive storage precautions** Keep container closed.
- Suitable packaging material** The national regulations for products classified as water hazard class 1 have to be obeyed.
Tanks made from high-grade steel, glass fibre reinforced polyester or polyethylene are suitable for the storage.
- Additional information about handling and storage** Information on combined storage: Storage class (LGK): 12 (non-burning liquid).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits	CAS-No.	EC-No.	Exposure Limit Values ppm / mg/m ³	Ceiling Limit Value ppm / mg/m ³	Short term exposure limit ppm / mg/m ³	Country

- Respiratory protection** Not required upon appropriate use.
- Safety gloves** Not required upon appropriate use.
- Personal protective equipment** Skin protection: Not required upon appropriate use.
- Limitation of exposure** Remove contaminated clothing. Keep away from food and beverages. Wash hands before breaks and after work.
- Additional information** Environmental exposure controls: Store according to national regulations (VAwS).
If possible, hold back the used premixed solution and dispose of according to national regulations.
- Protective glasses** Safety goggles may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Water solubility** Unlimited
- Pour point:** appr. 0) °C DIN ISO 3016
- Density** at 20°C: appr. 1,000 - 1,010 g/cm³ DIN EN ISO 3675
- Oxidizing properties** None



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9. PHYSICAL AND CHEMICAL PROPERTIES

Viscosity	at 0°C: max. 10 mm ² /sec DIN 51562
Viscosity	at 20°C: max. 5 mm ² /sec DIN 51562
Explosive properties	The product has no explosive properties
Form	Liquid
Colour	Colorless to yellow
Odour	Specific
pH	20°C: 6,5 - 8,5 DIN EN 1262:1996
Boiling point/range	appr. 100°C
Flash point	> 100°C DIN EN 22719

10. STABILITY AND REACTIVITY

Conditions to avoid	No decomposition upon appropriate use.
Materials to avoid	Strong oxidizers.
Hazardous decomposition products	None known.

11. TOXICOLOGICAL INFORMATION

Toxicity in case of skin contact	Classified as non-irritant according to the Dangerous Preparations Directive 1999/45/EU.
Toxicity in case of eye contact	Classified as non-irritant according to the Dangerous Preparations Directive 1999/45/EU.
Long term effect	None of the used ingredients shows CMR effects.
Sensitisation	None of the used ingredients shows sensitization potential.
Reproductive toxicity	None of the used ingredients shows CMR effects.
Additional information about toxicity	Rat toxicity LD50 oral: > 2000 mg/kg (Value derived from products of comparable composition).

12. ECOLOGICAL INFORMATION

Acute fish toxicity	LC50: appr. 125.000 mg/liter (96h, OECD 203)
Acute algae toxicity	ErC50: appr. 1.600 mg/liter (72 h, OECD 201)
Acute crustacean toxicity	Daphnia toxicity EC50: appr. 62.000 mg/liter (48h, OECD 202)
Biological decay	The product is very well bio-degradable.
Bioaccumulation	None of the used ingredients shows bioaccumulative potential.
Additional instructions	COD: appr. 28.200 mg O ₂ /litre (DIN EN 38409-H41-1) BOD ₅ : appr. 12.300 mg O ₂ /litre (DIN EN 1899-1). Breathing is not possible whilst submerged in the foam. Take care when spraying people!
Additional information	Influence on sewage systems: Influence unlikely if induced at concentrations lower than the following (TTC Test, DIN 38412 L3): < 64.000 mg/l (> 16 times diluted).



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13. WASTE MANAGEMENT

- Waste management** Product : Not to be disposed of with household garbage. Dispose of according to local regulations by incineration.
Upon appropriate dilution disposal by biological sewage system possible (consult authorities and plant management).
Uncleaned packaging: Disposal according to official regulations.
- Waste code (EWC)** European Waste Code: 16 Wastes not otherwise specified in the list
1603 Off-specification batches and unused products
160305* organic wastes containing dangerous substances

14. TRANSPORT INFORMATION

- Additional transport information** No hazardous good according to transport regulations (IMDG/GGVSee, ADR/RID and GGVSE, ICAOTI and IATA-DGR).
- Dangerous goods** No

15. REGULATIONS

- Mothercare** No
- Childcare** No
- Additional existing regulations** National regulations:
Water hazard class (WGK) : 1 (VwVwS supplement 4/4: self classification).

16. OTHER INFORMATION

- MSDS reviewed** 2009-01-21 (1)
- Additional information** Transferred MSDS original 26/11/08 to iChemistry.