

**MILFOAM Forrest Bore Cleaning foam aerosol**

Date 30.1.2013

Previous date: -

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

MILFOAM Forrest Bore Cleaning foam aerosol

**1.1.2 Product code**

503,-

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Cleaning product for gun pipes.

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**Milfoam International Ltd-  
Sivuliike Suomessa**P.O.Box**

Teollisuustie 10

**Postcode and post office**

02880

VEIKKOLA

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**Myrkytystietokeskus (Giftinformationcentralen) PL 340, 00029 HUS, FINLAND, +358-(0)9-471977  
(09) 471977 (24h/vrk)**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Flam. Aerosol 1, H222

Skin Irrit. 2, H315

**67/548/EEC - 1999/45/EC**

F+, Xi; R12-38

**2.2 Label elements****1272/2008 (CLP)**

GHS07 - GHS02

Signal word

**Danger****Hazard Statements**

H222 Extremely flammable aerosol.

H315 Causes skin irritation.

**Precautionary Statements**

P251 Pressurized container: Do not pierce or burn, even after use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**2.3 Other hazards****SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components****CAS/EC and  
Reg.number****EINECS****Chemical name of the  
substance****Concentration Classification**

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141-43-5	205-483-3	2-aminoethanol	<5%	Xn; R20/21/22;C; R34; Acute Tox. 4 (), H332; Acute Tox. 4 (), H312; Acute Tox. 4 ( ), H302; Skin Corr. 1B, H314
74-98-6	200-827-9	propane	10-15%	F+; R12; Flam. Gas 1, H220; Press. Gas
106-97-8	203-448-7 [1]	butane	15-20%	F+; R12; Flam. Gas 1, H220; Press. Gas

**SECTION 4. FIRST AID MEASURES****4.1 Description of first aid measures****4.1.2 Inhalation**

Remove person to fresh air. If signs/symptoms continue, get medical attention.

**4.1.3 Skin contact**

Wash skin thoroughly with soap and water or use recognized skin cleanser.

**4.1.4 Eye contact**

Rinse immediately with plenty of water, also under the eyelids.

**4.1.5 Ingestion**

If swallowed, seek medical advice immediately and show this container or label.

**4.2 Most important symptoms and effects, both acute and delayed**

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**4.3 Indication of immediate medical attention and special treatment needed**

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**SECTION 5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Foam Dry chemical Carbon dioxide (CO<sub>2</sub>)

**5.1.2 Extinguishing media which must not be used for safety reasons**

Water spray

**5.2 Special hazards arising from the substance or mixture**

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**5.3 Advice for firefighters**

Alcohol-resistant foam Dry chemical Carbon dioxide (CO<sub>2</sub>)

**5.4 Specific methods**

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Prevent unauthorised persons entering the zone.

**6.2 Environmental precautions**

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**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

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**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. Keep away from sources of ignition - No smoking. Do not breathe vapours or spray mist. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep at temperatures below 50 °C. Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

**7.3 Specific end use(s)**

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**

2-aminoethanol	1 ppm (8 h)	3 ppm (15 min)
	2,5 mg/m <sup>3</sup> (8 h)	7,6 mg/m <sup>3</sup> (15 min)
	ihv (HTP2005)	
propane	800 ppm (8 h)	1100 ppm (15 min)
	1500 mg/m <sup>3</sup> (8 h)	2000 mg/m <sup>3</sup> (15 min)

**8.1.2 Other information on limit values**

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**8.1.3 Limit values in other countries**

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**8.1.4 DNELs**

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**8.1.5 PNECs**

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**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Do not smoke. Provide adequate ventilation.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

Do not inhale aerosol.

**8.2.2.2 Hand protection**

Protective gloves

**8.2.2.3 Eye/face protection**

Goggles

**8.2.2.4 Skin protection**

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

**8.2.3 Environmental exposure controls**

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

aerosol

**9.1.2 Odour** mild**9.1.4 pH** <11**9.1.10 Explosive properties****9.1.10.1 Lower explosion limit** 1.4

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<b>9.1.10.2</b>	<b>Upper explosion limit</b>	10.4
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	n.85 %
<b>9.2</b>	<b>Other information</b>	

**SECTION 10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	-
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	-
<b>10.4</b>	<b>Conditions to avoid</b>	Do not expose to temperatures above 50 °C.
<b>10.5</b>	<b>Incompatible materials</b>	-
<b>10.6</b>	<b>Hazardous decomposition products</b>	-

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.2</b>	<b>Irritation and corrosion</b>	Causes skin irritation.
<b>11.1.3</b>	<b>Sensitisation</b>	-
<b>11.1.4</b>	<b>Subacute, subchronic and prolonged toxicity</b>	-
<b>11.1.5</b>	<b>STOT-single exposure</b>	-
<b>11.1.6</b>	<b>STOT-repeated exposure</b>	-
<b>11.1.7</b>	<b>Aspiration hazard</b>	-
<b>11.1.8</b>	<b>Other information on acute toxicity</b>	-

**SECTION 12. ECOLOGICAL INFORMATION**

<b>12.1</b>	<b>Toxicity</b>	
<b>12.1.1</b>	<b>Aquatic toxicity</b>	-
<b>12.1.2</b>	<b>Toxicity to other organisms</b>	-
<b>12.2</b>	<b>Persistence and degradability</b>	
<b>12.2.1</b>	<b>Biodegradation</b>	Biodegradable
<b>12.2.2</b>	<b>Chemical degradation</b>	-

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- 12.3 Bioaccumulative potential**  
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- 12.4 Mobility in soil**  
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- 12.5 Results of PBT and vPvB assessment**  
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- 12.6 Other adverse effects**  
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**SECTION 13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**  
Dispose of in accordance with local regulations.
- 13.2 Waste from residues / unused products**  
Empty remaining contents. Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION**

	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>
<b>14.1 UN number</b>	1950	1950
<b>14.2 UN proper shipping name</b>	Flammable aerosol	flammable aerosol
<b>14.3 Transport hazard class(es)</b>	2, 5 flammable aerosol	2.1
<b>14.4 Packing group</b>		
<b>14.5 Environmental hazards</b>		
<b>Other information</b>		

- 14.6 Special precautions for users**  
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- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
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**SECTION 15. REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
H222 - Extremely flammable aerosol
- 15.2 Chemical safety assessment**

**SECTION 16. OTHER INFORMATION**

- 16.1 Additions, Deletions, Revisions**  
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- 16.2 Key or legend to abbreviations and acronyms**  
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**16.3 Key literature references and sources for data**

1. Information provided by the manufacturer. 2. Lewis,R.J.Sr.,Sax`s Dangerous Properties of Industrial Materials, 8th Ed., 1992 3. Työministeriö:Turvallisuuustiedote 25, HTP-arvot 2002. E.Nikunen et al, Enviromental properties of chemicals, 1991. STM asetukset 1202/2001&374/2002.

**16.4 Classification procedure**

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**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

R12 Extremely flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R38 Irritating to skin.  
H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.

**16.6 Training advice**

Provide adequate information, instruction and training for operators.

**16.7 Recommended restrictions**

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**16.8 Additional information available from:**

1. Information provided by the manufacturer. 2. Lewis,R.J.Sr.,Sax`s Dangerous Properties of Industrial Materials, 8th Ed., 1992 3. Työministeriö:Turvallisuuustiedote 25, HTP-arvot 2002. E.Nikunen et al, Enviromental properties of chemicals, 1991. STM asetukset 1202/2001&374/2002.

**Date** 1.2.2013

**Signature** MILFOAM International LTd.