



Date: 01.04.2011

Former date:

<b>1.</b>	<b>IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING</b>	
<b>1.1</b>	<b>Identification of the substance or preparation</b>	
	Trade name PRF FIRST1	
	Code of the preparation	
	Reach registration number	
<b>1.2</b>	<b>Use of the substance/preparation</b>	
<b>1.2.1</b>	<b>The uses of the chemical</b> Lubricant	
<b>1.2.2</b>	<b>Classification of economic activities (NACE)</b>	D Industry
<b>1.2.3</b>	<b>Use categories (UC62)</b>	35 Lubricants and additives
<b>1.2.4</b>	<b>The chemical can be used by the general public</b>	<input checked="" type="checkbox"/>
<b>1.2.5</b>	<b>The chemical is used by the general public only</b>	<input type="checkbox"/>
<b>1.3</b>	<b>Company/undertaking identification</b>	
<b>1.3.1</b>	<b>Manufacturer, importer, other undertaking</b> Taerosol Oy	
<b>1.3.2</b>	<b>Contact information:</b>	
	<b>Street address</b>	Hampuntie 21
	<b>Postcode and post office</b>	FIN-36220 Kangasala, Finland
	<b>Post-office box</b>	
	<b>Postcode and post office</b>	
	<b>Telephone number</b>	+358 3 356 5600
	<b>Telefax</b>	+358 3 356 5656
	<b>E-mail address</b>	heikki.jalava@taerosol.com
	<b>Y code</b>	0284768-6
<b>1.3.3</b>	<b>Information on the foreign manufacturer</b>	
<b>1.4</b>	<b>Emergency telephone</b>	
<b>1.4.1</b>	<b>Telephone number, name and address</b>	
	In emergency 112	
<b>2.</b>	<b>HAZARDS IDENTIFICATION</b>	
	F+ Extremely flammable	
	Vapours may cause drowsiness and dizziness. Repeated exposure may be irritating to skin. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Harmful: May cause lung damage if swallowed. Ingestion may cause pneumonia. The classification R 65 (Harmful: May cause lung damage if swallowed) does not apply for products in aerosol containers. (EU Directive 67/548 Annex VI 9.4)	

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3. COMPOSITION AND INFORMATION ON INGREDIENTS			
3.1 Hazardous ingredients			
3.1.1 CAS/EC number and the Registration number	3.1.2 Name of the ingredient	3.1.3 Concentration	3.1.4 Classification (symbol letters and R phrases) and other data on the ingredient
64742-49-0	Hydrocarbon solvents	5-10 %	F, Xn, N, R:11-38-65-67, 51/53
67-63-0	Synthetic lubricant	25-35 %	
64741-65-7	Isopropanol (IPA)	5-10 %	F, Xi, R:11-36-67
74-98-6	Hydrocarbon solvents	10-20 %	Xn, R:65-66
106-97-8	Propane	10-20 %	F+, R:12
	Butane	10-20 %	F+, R:12

- 3.1.5 There has been a request for confidentiality of a substance according to Annex 2 of the decree ☐
- 3.1.6 A substance not dangerous has been indicated as confidential ☐
- 3.1.7 Other information

4. FIRST AID MEASURES	
4.1	<b>Special instructions</b>
4.2	<b>Inhalation</b> If unusual tiredness and queasiness occurs when breathing big concentrations, go to fresh air. If continuing call a doctor.
4.3	<b>Skin contact</b> Wash contact areas with soap and water. If irritation continues, call a doctor. Polluted clothes may be flammable, they must be moisten before taking off. Clothes must be washed before used again.
4.4	<b>Eye contact</b> Flush thoroughly with water at least 10 min. If irritation continues, call a doctor.
4.5	<b>Ingestion</b> When taken internally, DO NOT VOMIT, contact doctor.
4.6	<b>Information for a doctor or other professionals giving first aid</b> Cure according to symptoms. Ingestion may cause pneumonia.
5. FIRE-FIGHTING MEASURES	
5.1	<b>Suitable extinguishing media</b> Carbon dioxide, foam, powder and sand for small fires.
5.2	<b>Extinguishing media which shall not be used for safety reasons</b> Do not extinguish with strong water-jet.
5.3	<b>Special exposure hazards in a fire</b> Risk of explosion if the cans overheat in fire and the pressure rises.
5.4	<b>Special protective equipment for fire-fighters</b> Normal protective equipment.
5.5	<b>Other instructions</b> Cool container with water when exposed to fire.
6. ACCIDENTAL RELEASE MEASURES	
6.1	<b>Personal precautions</b> Evacuate all unnecessary people.
6.2	<b>Environmental precautions</b> Prevent spills from entering to groundwater
6.3	<b>Methods for cleaning up</b> Dispose material according to current applicable laws and regulations.
6.4	<b>Other instructions</b>

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7.	HANDLING AND STORAGE		
7.1	<b>Handling</b> Breathing the vapours and continuous or long-term contacts to skin must be avoided. Keep away from sources of ignition. No smoking. Keep away from children.		
7.2	<b>Storage</b> In storage appropriate for extremely flammable aerosols.		
7.3	<b>Specific use(s)</b>		
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
8.1	Exposure limit values		
8.1.1	HTP values (in Finland)		
	Hydrocarbon solvents	500 ppm (8h) 1800 mg/m³ (8 h)	630 ppm (15 min) 2300 mg/m³ (15 min)
	IPA	200 ppm (8 h) 500 mg/m³ (8h)	250 ppm (15 min) 620 mg/m³ (15 min)
	Hydrocarbon solvents    arom below 17%	770 mg/m³ (8h)	1000 mg/m³ (15 min)
	Propane	800 ppm (8 h) 1500 mg/m³ (8h)	1100 ppm (15 min) 2000 mg/m³ (15 min)
	Butane	800 ppm (8 h) 1900 mg/m³ (8 h)	1000 ppm (15 min) 2350 mg/m³ (15 min)
8.1.2	Other limit values		
8.1.3	Limit values in other countries		
8.1.4	DNELs		
8.1.5	PNECs		
8.2	Exposure controls		
8.2.1	<b>Occupational exposure controls</b> Adequate ventilation is recommended.		
8.2.1.1	<b>Respiratory protection</b> If necessary use respiration mask with A-2 filter.		
8.2.1.2	<b>Hand protection</b> If necessary use PVC-gloves.		
8.2.1.3	<b>Eye protection</b> Wear eye/ face protection.		
8.2.1.4	<b>Skin protection</b> Avoid contact with skin. Normal protective equipment. If necessary use PVC-gloves.		
8.2.2	<b>Environmental exposure controls</b> Do not empty into drain.		
9.	PHYSICAL AND CHEMICAL PROPERTIES		
9.1	<b>General information (physical state, colour and odour)</b> Clear, yellowish liquid, mild odor.		
9.2	<b>Important health, safety and environmental information</b>		
9.2.1	pH -		
9.2.2	Boiling point/boiling range		

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- 82 °C (IPA), -20 °C (Prop./But.)
- 9.2.3 Flash point**  
< 0°C
- 9.2.4 Flammability (solid, gas)**  
-
- 9.2.5 Explosive properties**  
Lower explosion limit 2,3 vol-% Propane. Upper explosion limit 9,5 vol-% Propane.
- 9.2.6 Oxidising properties**
- 9.2.7 Vapour pressure**
- 9.2.8 Relative density**  
870 kg/m<sup>3</sup>
- 9.2.9 Solubility**
- 9.2.10 Water solubility**  
Slightly soluble in water
- 9.2.11 Partition coefficient: n-octanol/water**
- 9.2.12 Viscosity**
- 9.2.13 Vapour density**
- 9.2.14 Evaporation rate**

**9.3 Other information**

**10. STABILITY AND REACTIVITY**

- 10.1 Conditions to avoid**
- 10.2 Materials to avoid**
- 10.3 Hazardous decomposition products**

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Acute toxicity**  
In practice is toxicity insignificant.
- 11.2 Irritation and corrosivity**  
May irritate slightly skin.
- 11.3 Sensitisation**  
Is not suspected to cause allergy.
- 11.4 Sub-acute, sub-chronic and prolonged toxicity**  
Is not suspected to have mutagenic risk.
- 11.5 Human health effects based on experience**  
Repeated exposure may be irritating to skin. Harmful: May cause lung damage if swallowed. Ingestion may cause pneumonia. Very big concentrations in the air may effect headache daze and indisposition.
- 11.6 Other information on health effects**

**12. ECOLOGICAL INFORMATION**

- 12.1 Ecotoxicity**
- 12.1.1 Aquatic toxicity**  
In practice non-toxic to aquatic organisms.
- 12.1.2 Toxicity to other organisms**  
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- 12.2 Mobility**  
Slightly soluble in water. Evaporates partly from water or soil. Big quantities may pollute soil and ground water.

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<b>12.3</b>	<b>Persistence and degradability</b>	
<b>12.3.1</b>	<b>Biodegradation</b>	
<b>12.3.2</b>	<b>Chemical degradation</b>	
<b>12.4</b>	<b>Bioaccumulative potential</b>	
<b>12.5</b>	<b>Results of PBT assessment</b>	
<b>12.6</b>	<b>Other adverse effects</b>	
<b>13.</b>	<b>DISPOSAL CONSIDERATIONS</b>	
	Empty cans must be disposed according to laws and environment officials	
<b>14.</b>	<b>TRANSPORT INFORMATION</b>	
<b>14.1</b>	<b>UN number</b> 1950	
<b>14.2</b>	<b>Packing group</b> 2	
<b>14.3</b>	<b>Land transport</b>	
<b>14.3.1</b>	<b>Transport class</b> 2	
<b>14.3.2</b>	<b>Risk code</b>	
<b>14.3.3</b>	<b>Name according to bill of freight</b> Technical aerosol	
<b>14.3.4</b>	<b>Other information</b>	
<b>14.4</b>	<b>Sea transport</b>	
<b>14.4.1</b>	<b>IMDG class</b> 2.1 EmS No F-D, S-U	
<b>14.4.2</b>	<b>Correct technical name</b> Technical aerosol	
<b>14.4.3</b>	<b>Other information</b>	
<b>14.5</b>	<b>Air transport</b>	
<b>14.5.1</b>	<b>ICAO/IATA class</b> 2.1	
<b>14.5.2</b>	<b>Correct technical name</b> Technical aerosol	
<b>14.5.3</b>	<b>Other information</b>	
<b>15.</b>	<b>REGULATORY INFORMATION</b>	
<b>15.1</b>	<b>Information on the label</b>	
<b>15.1.1</b>	<b>Danger symbols (letters) and indications of danger</b> F+ Extremely flammable	
<b>15.1.2</b>	<b>Substances to be named on the label</b>	
<b>15.1.3</b>	<b>R phrases</b> R 12 R 51/53 R 66	Extremely flammable Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.
<b>15.1.4</b>	<b>S phrases</b> S 2	Keep out of the reach of children.

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- S 16** Keep away from sources of ignition – No smoking  
**S 23** Do not breathe vapour.  
**S 24/25** Avoid contact with skin and eyes.
- 15.1.5** **Special provisions concerning the labelling of certain preparations**  
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding +50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Keep away from children.
- 15.1.6** **Chemical Safety Assessment has been carried out for the following substances**
- 15.2** **National regulations**

## **16. OTHER INFORMATION**

- 16.1** **List of relevant R phrases**  
**R 10** Flammable  
**R 11** Highly flammable  
**R 12** Extremely flammable  
**R 36** Irritating to eyes.  
**R 38** Irritating to skin.  
**R 65** Harmful: May cause lung damage if swallowed  
**R 66** Repeated exposure may cause skin dryness or cracking.  
**R 67** Vapours may cause drowsiness and dizziness.  
**R 51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 16.2** **Training advice**
- 16.3** **Recommended restrictions on use**
- 16.4** **Further information**  
Taerosol Oy
- 16.5** **Sources of key data used to compile the Safety Data Sheet**  
The information contained herewith is based on the information from raw material deliverers.
- 16.6** **Information which has been added, deleted or revised**