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Reviewed on: 11.03.2008	<b>FUEL CLEANER</b>	

**1. Identification of substance, company:**

1.1. Identification of substance: **FUEL CLEANER– R 34 007, R 34 209 R 34 008 0,3/5/210 litre**

1.2. Application of the substance/the preparation: Fuel systems cleaner


1.3. Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha-5 Stodůlky  
Telephone/Fax: +420 327 596 128, +420 596 428  
Information: [hana.mekotova@retech.cz](mailto:hana.mekotova@retech.cz)

1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory  
extraordinary situations: Tel.+420 327 596 128 (7.30-16.00 hour)  
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2  
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Hazard identification:**  
The product is labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.


2.1. Hazard designation:

F




Highly flammable

Xn



Harmful

N



Dangerous for the environment

2.2. Information pertaining to particular dangers for man and environment:  
Highly flammable.  
Harmful by inhalation and in contact with skin.  
Harmful: danger of very serious damage to health by prolonged exposure through inhalation.  
Irritating to skin.  
Possible risk of harm to the unborn child.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: May cause lung damage if swallowed.

2.3. Additional information:  
Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of ignition.-  
No smoking.  
Buildup of explosive mixtures possible without sufficient ventilation.  
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**3. Composition/information on ingredients:**

3.1. Description:  
Mixture of the substances listed below with harmless additions.

3.2. Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Regular kerosene	30-60	8008-20-6	232-366-4	Xn, Xi, N	R 10-38-51/53-65
Xylene	10-30	1330-20-7	215-535-7	Xn, Xi	R 10-20/21-38
Toluene	10-30	108-88-3	203-625-9	F, Xn	R 11-38-48/20-63-

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					65-67
D009 Nonionic surfactant	1-5	68412-54-4	-	Xn, Xi	R 22-36/38-53

Additional information: For the wording of the listed risk phrases refer to section 16.

**4. First aid measures:**

- 4.1. After inhalation: Supply fresh air, rest and fresh air; consult doctor in case of symptoms.
- 4.2. After skin contact: Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.
- 4.3. After eye contact: Rinse opened eye for several minutes under running water. Continue to rinse for at least 15 minutes and get medical attention.
- 4.4. After swallowing: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
- 4.5. General information: -

**5. Fire fighting measures:**

- 5.1. Suitable extinguishing agents: Carbon dioxide, alcohol resistant foam, fire-extinguishing powder
- 5.2. For safety reasons unsuitable extinguishing agents: Water jet
- 5.3. Protective equipment: Breathing apparatus should be worn if exposure to fumes is likely. Use water to keep fire exposed containers cool and disperse vapours.
- 5.4. Special hazards caused by the material, its products of combustion or resulting gases: -
- 5.5. Additional information: Solvent vapours may form explosive mixtures with air.

**6. Accidental release measures:**

- 6.1. Person-related safety precautions: Wear protective equipment see item 8.2. Keep unprotected persons away. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
- 6.2. Measures for environmental protection: Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.
- 6.3. Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to suitable container for subsequent disposal. Ensure adequate ventilation.
- 6.4. Additional information: -

**7. Handling and storage:**

- 7.1. Handling:
  - Information for safe handling: Avoid spilling, skin and eye contact.
  - Information about protection against explosions and fires: Keep away from heats, sparks and open flame.
- 7.2. Storage:
  - Requirements to be met by storerooms and containers: Store in cool dry place away from all sources of heat including direct sunlight.
  - Information about storage in one common storage facility: -
  - Further information about storage conditions: -

**8. Exposure controls and personal protection:**

- 8.3. Validate parameter:
  - Components with limit values that require monitoring at the workplace: (GB)
  - 108-88-3 Toluene
  - OES Short-term value: 384 mg/cm<sup>3</sup>, 100 ppm
  - Long-term value: 191 mg/cm<sup>3</sup>, 50 ppm

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<p>1330-20-7 Xylene OES Short-term value: 441 mg/cm<sup>3</sup>, 100 ppm Long-term value: 220 mg/cm<sup>3</sup>, 50 ppm</p> <p>8008-20-6 Regular kerosene OES Short-term value: - Long-term value: 800 mg/cm<sup>3</sup></p> <p>Additional information: The lists that were valid during the compilation were as basis.</p>		
8.2.	Personal protective equipment:	
	Eye protection:	Safety goggles
	Breathing equipment:	Not necessary if room is well-ventilated.
	Protection of hands:	Protective gloves
	Protection of skin:	Use protective suit.
8.3.	General protective and hygienic measures:	-
<b>9.</b>	<b>Physical and chemical properties:</b>	
	Form (at 20°C):	Fluid
	Color:	Clear
	Odor:	Characteristic
9.1.	Value pH:	-
	Melting point/Melting range:	Not determined
	Boiling point/Boiling range:	Not determined
	Flash point:	14°C
	Inflammability (strength, gas form)	-
	Self-inflammability:	Product is not self igniting.
	Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
	Explosion limits: lower (% Vol.):	0.6
	upper (% Vol.):	13.7
	Oxidative properties:	-
	Vapor pressure (at 20°C):	-
	Density at 25 °C	0.818 g/cm <sup>3</sup>
	Solubility in/Miscibility with - water	Not miscible or difficult to mix.
9.2.	VOC ( 20°C)::	693,6 g/l
	Other information:	-
	Organic solvents:	-
	Solids content:	-
<b>10.</b>	<b>Stability and reactivity:</b>	
10.1.	Thermal decomposition / conditions to be avoided:	Avoid heat, flames and other sources of ignition.
10.2.	Materials to be avoided:	Strong oxidizing substances
10.3.	Dangerous reactions:	-
10.4.	Dangerous products of decomposition:	In case of fire or high temperatures CO, CO <sub>2</sub> may be possible.
<b>11.</b>	<b>Toxicological information:</b>	
11.1.	Acute toxicity:	
	1330-20-8 Xylene	Oral LD 8700 mg/kg (rat) Dermal LD 2000 mg/kg (rbt) Inhalative LC50/4h 6350 mg/l (rat)
	108-88-3 Toluene	Oral LD50 5000 mg/kg (rat) Dermal LD50 12124 mg/kg (rbt) Inhalative LC50/4h 5320 mg/l (mus)
11.2.	Primary irritant effect: inhalation:	Harmful by inhalation. High concentrations of vapour may cause dizziness, nausea

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on the skin:	and headaches. Irritant to skin and mucous membranes.
on the eye:	May cause transient irritation.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	Harmful if swallowed – may cause lung damage. May cause irritation of mouth, respiratory tract and intestinal system.

**12. Ecological information:**  
 Water hazard class 2 (Self-assessment): hazardous for water.  
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.




**13. Disposal considerations:**  
 13.1. Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 13.2. Uncleaned packagings: Disposal must be made according to official regulations.

**14. Transport information:**  
 14.1. Land transport:  
 ADR/RID-GGVS/E class: 3 Flammable liquids.  
 Danger code (Kemler): 33  
 Number/Letter: -  
 Number UN: 1993  
 Packaging group: II  
 Label: 3  
 Description of goods: Flammable liquid, n.o.s.  
 14.2. Maritime transport:  
 IMDG-class: 3  
 Page: -  
 Number UN: 1993  
 Packaging group: II  
 EMS-group: F-E, S-E  
 Marine pollutant: No  
 MFAG: -  
 Proper shipping name: Flammable liquid, n.o.s.  
 14.3. Air transport:  
 ICAO / IATA -class: 3  
 UN/ID number: 1993  
 Packaging group: II  
 Proper shipping name: Flammable liquid, n.o.s.

**15. Regulatory information:**  
 15.1. Labelling according to law line:  
 The product has been labeled in accordance with EC Directives / relevant national laws.  
 Danger of determining components and mark to labelling:  
 108-88-3 Toluene, 1330-20-7 Xylene, 8008-20-6 Regular kerosene

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of ignition.  
 No smoking.

Labelling hazardousness:

 F- Highly flammable
  Xn- Harmful
  N- Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

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- R 11 Highly flammable.  
R 20/21 Harmful by inhalation. and in contact with skin.  
R 38 Irritating to skin.  
R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 63 Possible risk of harm to the unborn child.  
R 65 Harmful: May cause lung damage if swallowed.

Numbers and word reading associated security S-sentences:

- S 2 Keep out of the reach children.  
S 16 Keep away from sources of ignition – No smoking.  
S 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
S 51 Use only in well-ventilated areas.  
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

15.2. Used legislation:

European Regulation (EC) No 1907/2006 - REACH  
Regulation (EC) No 648/2004 of the European Parliament and of the council of 31 March 2004 on detergents

**16. Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R-phrases:

- R 10 Flammable.  
R 11 Highly flammable.  
R 20/21 Harmful by inhalation and in contact with skin.  
R 22 Harmful if swallowed.  
R 36/38 Irritating to eyes and skin.  
R 38 Irritating to skin.  
R 48/20 Harmful: danger of very serious damage to health by prolonged exposure through inhalation.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 53 May cause long-term adverse effects in the aquatic environment.  
R 63 Possible risk of harm to the unborn child.  
R 65 Harmful: May cause lung damage if swallowed.