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Reviewed on:	BRAKE CLEANER-TANK	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier : **BRAKE CLEANER – R 34218/19 (tank)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Cleaner for brakes
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha-5 Stodůlky
Telephone/Fax: +420 327 596 128, +420 327 596 428
Information: info@retech.cz
- 1.4. Emergency telephone number:
RETECH Suchdol 212, Suchdol u Kutné Hory
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. Section 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. 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.

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008:
- | | |
|-------------------|---|
| Flam. Liq. 2 | H225 Highly flammable liquid and vapour.. |
| Asp.Tox.1 | H304 May be fatal if swallowed and enters airways. |
| Skin Irrit. 2 | H315 Causes skin irritation. |
| STOT SE 3 | H336 May cause drowsiness or dizziness. |
| Aquatic Chronic 2 | H411 Toxic to aquatic life with long lasting effects. |
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
- | | |
|---------------------------------|--|
| F-Highly flammable | R11 Highly flammable. |
| Xn-Harmful | R65 Harmful: May cause lung damage if swallowed. |
| Xi-Irritant | R38 Irritating to skin. |
| N-Dangerous for the environment | R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
- R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008:

GHS02



DANGER

GHS08



DANGER

GHS07



WARNING

GHS09



- H225 Highly flammable liquid and vapour..
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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Labelling according to Directive 1999/45/EC:



Special labeling of certain preparations:

Protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep away from sources of ignition.- No smoking.

Keep out of reach of children.

Contains (R)-p-metha-1,8-diene.May produce an allergic reaction.

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

Buildup of explosive mixtures possible without sufficient ventilation.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient.

Dangerous components:

CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475514-35-xxxx	Naphtha (petroleum); Hydrotreated light (contains less than 0.1% benzene) F R11; Xi R38; N51/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol F R 11; Xi R36; R67 GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336	≤2.5%
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-metha-1,8-diene R10; Xi R38-43; N R50/53 GHS02 Flam.Lig3, H226; GHS09 Aquatic Acute1, H400; Aquatic Chronic1, H410;GHS07 Skin Irrit2, H315; Skin Sens.1, H317	≤2.5%

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

Ingredients according to detergents guideline 648/2004/EC: Aliphatic hydrocarbons ≥30%, perfumes ((R)-p-mentha-1,8-diene) <5%

4. Section 4. First aid measures:

Description of first aid measures:

After inhalation: Supply fresh air; rest, if necessary seek medical advice.

After skin contact: Remove soaked clothing; Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Rinse mouth; Do not induce vomiting; call for medical help immediately.

Most important symptoms and effects, both acute and delayed: Headache, Unconsciousness. Danger of pulmonary edema. Danger of pneumonia.

In case of unconsciousness place patient stable in side position for transportation.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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5. Section 5. Fire fighting measures:

- 5.1. Extinguishing media:
Suitable extinguishing agents: CO₂, extinguishing powder or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water jet.
- 5.2. Special hazards arising from the substance or mixture:
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
- 5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.
Aerosols may explode when overheated.
Cool the container with water.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.2. Ensure adequate ventilation. Keep unprotected person away. Keep away from ignition sources.
- 6.2. Environmental precautions:
Do not allow product to reach sewage system, surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- 6.3. Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to Section 13.
- 6.4. Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment
See Section 13 for disposal information.

7. Section 7. Handling and storage:

- 7.1. Information for safe handling:
Information about protection against explosions and fires: Ensure good ventilation/exhaustion at the workplace.
Keep away from direct sun exposure and temperatures over 50°C.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 7.2. Conditions for safe handling, including any incompatibilities:
Requirements to be met by storerooms and containers: Store in cool location.
Information about storage in one common storage facility: No further relevant information available.
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- 7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls and personal protection:

- 8.1. Control parameters:
Components with limit values that require monitoring at the workplace:
67-63-0 Propan-2-ol
WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm
64742-49-0 Naphtha (petroleum) – Long-term value: 315 ppm
- 8.2. Exposure controls:
Eye protection: Tightly safety glasses.
Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. In

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11. Toxicological information:

11.1 Information on toxicological effects:

Acute toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral LD50 4300-6000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)

Inhalative LC50/4h >60 mg/l (rat)

Irritation: on the skin: Irritant to skin and mucous membranes.

on the eye: No irritating effect.

Corrosivity: Not corrosive.

Sensitization: No sensitizing effect known.

Repeated dose toxicity: No further relevant information available.

Carcinogenicity: No further relevant information available.

Mutagenicity: No further relevant information available.

Toxicity for reproduction: No further relevant information available.

Other information: Vapours have narcotic effect.

12. Section 12. Ecological information:

12.1. Toxicity:

Ecotoxicological effects:

Aquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light

LC50 (48h) 35-37 mg/l (Fish)

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

Toxic to fish.

12.2. Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil: No further relevant information available.

12.5. Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

13.1 Waste treatment methods:

Product:

Dispose in safe manner in accordance with local/national regulation. Do not allow product to reach sewage system.

European waste catalogue:

07 01 04 other organic solvents, washing liquids and mother liquors

Uncleaned packagings:

Disposal must be made according to official regulations.

European waste catalogue:

15 01 10 packaging containing residues of or contaminated by dangerous substances

14. Section 14. Transport information:

14.1. Land transport:

ADR/RID-GGVS/E class: 3 Flammable liquids

Danger code (Kemler): 33

Number UN: 3295

Packaging group: II

Hazard label: 3

Description of goods: 3295 Flammable liquid, n.o.s.

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Special marking:	Symbol (fish and tree)
Remarks:	"Limited quantities", LQ4
Transport category:	2
Tunnel restriction code	D/E
UN proper shipping name:	3295 HYDROCARBONS, LIQUID, N.O.S.
14.2. Maritime transport:	
IMDG-class:	3
Number UN:	3295
Hazard label:	3
Packaging group:	II
Marine pollutant:	YES Symbol (fish and tree)
EMS-group:	F-E,S-E
Proper shipping name:	HYDROCARBONS, LIQUID, N.O.S. Flammable liquid
Remarks:	LQ4
14.3. Air transport:	
ICAO / IATA -class:	3
UN/ID number:	3295
Hazard label:	3
Packaging group:	II
Proper shipping name:	HYDROCARBONS, LIQUID, N.O.S. Flammable liquid
UN "Model Regulation":	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II
Special precautions for users - Flammable liquids.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable

15. Section 15. Regulatory information:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

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:

64742-49-0 Naphtha (petroleum), hydrotreated light, 67-63-0 Propan-2-ol

Protect from sunlight and do not expose to temperatures exceeding 50°C.

Contains (R)-p-metha-1,8-diene. May produce an allergic reaction.

Labelling hazardousness:



F+ Highly flammable



Xn- Harmful



N- Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

R 11 Highly flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

R 65 Harmful: May cause lung damage if swallowed.

R 67 Vaporous may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

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S 2 Keep out of reach of children.
S 7/9 Keep container tightly closed and in a well-ventilated place.
S 16 Keep away from sources of ignition – No smoking.
S 23 Do not breathe vapor/aerosol.
S 33 Take precautionary measures against static discharges.
S 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S 37 Wear suitable gloves.

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.

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (chapter 2.5.).

Regulation (EC) No 648/2004 Contains: Aliphatic, hydrocarbons $\geq 30\%$, perfumes $< 5\%$

Density: 0.707 g/cm³
VOC: 705 g/l

European Regulation (EC) No 1907/2006 – REACH.
Commission Regulation (EU) No 453/2010.
European Regulation No 67/548EEC and 1999/45/EC.
Commission Regulation (EC) No 1272/2006 – CLP.
Commission Regulation (EC) No 790/2009.
Regulation (EC) No 648/2004 (detergents).

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 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+H phrases:

R 10 Flammable
R 11 Highly flammable.
R 36 Irritating to eyes.
R 38 Irritating to skin.
R 43 May cause sensitisation by skin contact.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: May cause lung damage if swallowed.
R 67 Vapours may cause drowsiness and dizziness.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
WEL- Workplace exposure limits
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

***Compared to the last version the data has been changed.**