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Reviewed on:	EASY B-CLEAN	Version: 1.0

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

- 1.1. Product identifier:
Trade name: **EASY B-CLEAN**
Product code: **1 20513 – 30 L (canister)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Universal cleaner and degreaser.
For professional and industrial use only.
Uses advised against: Not known.
- 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 number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Danger

Hazard Statements:

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

Precautionary Statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P312 Call a POISON CENTER/doctor if you feel unwell.

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P331 Do NOT induce vomiting.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with national regulation.

Supplemental Hazard information (EU):

EUH208 Contains d-limonene. May produce an allergic reaction.

Contained dangerous substances:

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics;
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
67-63-0 propan-2-ol

Regulation (EC) No 648/2004:

aliphatic hydrocarbons 5 - 15 %; parfum (limonene) < 5 %

Other informations:

EU limit for this product is (Cat. B/a): 850 g/l (2007).

This product contains max. 709.9 g/l VOC.

2.3. Other hazards:

Results of PBT and vPvB assessment:

Not applicable.

3. SECTION 3: Composition/information on ingredients

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

EC No: 927-510-4 Reg. No.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25 - 50 %
EC No: 921-024-6 Reg. No.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25 - 50 %
CAS: 67-63-0 EINECS: 200-661-7 Reg. No.: 01-2119457558-25	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1 - 2.5 %
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene, d-limonene Flam. Liq. 3, H226; Skin. Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1 - 1 %

For full text of H-statements: see SECTION 16.

Regulation (EC) No 648/2004 on Detergents:

aliphatic hydrocarbons 5 - 15 %;

parfum (limonene) < 5 %

4. SECTION 4: First aid measures

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.
After inhalation: Move affected person to fresh air and keep warm and at rest.
Get medical attention if any discomfort continues.
After skin contact: Wash immediately with plenty of water and soap and rinse thoroughly.
Take off immediately all contaminated clothing.
After eye contact: Rinse opened eye for several minutes under running water.

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<p>After swallowing:</p> <p>4.2. Most important symptoms and effects, both acute and delayed:</p> <p>4.3. Indication of any immediate medical attention and special treatment needed:</p>	<p>Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues. Do not induce vomiting. Immediately call a doctor.</p> <p>Unconsciousness, breathing difficulties, dizziness, cough, nausea. Risk of pulmonary edema. Risk of pneumonia.</p> <p>If swallowed or in case of vomiting, danger of entering the lungs. Subsequent observation for pneumonia and pulmonary oedema.</p>
<p>5. SECTION 5: Firefighting measures</p>	
<p>5.1. Extinguishing media:</p> <p>5.2. Special hazards arising from the substance or mixture:</p> <p>5.3. Advice for firefighters:</p>	<p>Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, foam. Unsuitable extinguishing agents: Water jet.</p> <p>Formation of explosive gas-air mixtures is possible. Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide, carbon dioxide.</p> <p>Wear protective clothing and self-contained breathing apparatus. Cool endangered receptacles with water spray. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.</p>
<p>6. SECTION 6: Accidental release measures</p>	
<p>6.1. Personal precautions, protective equipment and emergency procedures:</p> <p>6.2. Environmental precautions:</p> <p>6.3. Methods and material for containment and cleaning up:</p> <p>6.4. Reference to other sections:</p>	<p>Wear protective equipment, see Section 8. Keep unprotected person away. Ensure adequate ventilation. Keep away from ignition sources.</p> <p>Do not allow to enter sewage system, surface or ground water. Inform respective authorities in case product reaches water course or sewage system.</p> <p>Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to Section 13.</p> <p>See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.</p>
<p>7. SECTION 7: Handling and storage</p>	
<p>7.1. Precautions for safe handling:</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p>	<p>Protective measures: Wear protective equipment, see Section 8. Ensure good ventilation/exhaustion at the workplace. Avoid breathing spray. Avoid contact with skin and eyes.</p> <p>Measures to prevent fire: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.</p> <p>Requirements for storage rooms and vessels: Store in a cool place.</p> <p>Technical measures and storage conditions: No special requirements.</p>

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Further information on storage conditions:

Protect from heat and direct sunlight.

7.3. Specific end use(s): No further relevant information available.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
67-63-0	Propan-2-ol	400	999	500	1250	

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

Contains no substances with occupational exposure limit values.

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.

General protective measures: Store away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gas/vapours/spray.

Avoid skin and eye contact.

Personal protection equipment:

Respiratory protection: Respiratory protection usually not required with adequate ventilation.

In case of inadequate ventilation wear suitable respiratory protection with filter, class AX.

During intensive or longer exposure use self-contained breathing apparatus.

Eye protection: Tightly sealed goggles.

Hand protection: Protective gloves.

The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.

Recommend material of gloves: nitrilrubber

Recommended thickness of the material: ≥ 0.7 mm

Penetration time of glove material: : ≥ 240 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection: Protective clothing.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Form: Liquid.

Colour: Colourless.

Odour: Orange.

Odour threshold: Not determined.

Value pH at 20 °C: Not determined.

Melting point/freezing point: Not determined.

Initial boiling point/boiling range: 80 - 110 °C

Flash point: < 0 °C

Evaporation rate: Not determined.

Flammability (solid, gas): Not determined.

Explosive properties: The product is not explosive. However, formation of explosive air/steam mixtures is possible.

Explosive limits:

– lower: Not determined.

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– upper: Not determined.
 Vapour pressure at 20°C: Not determined.
 Vapour density at 20 °C: Not determined.
 Density at 20°C: 0.710 g/cm³
 Relative density: Not determined.
 Solubility in/miscibility: Water: 0.01 g/l
 Partition coefficient (n-octanol/water): Not determined.
 Ignition temperature: > 200 °C
 Decomposition temperature: Not determined.
 Self-ignition temperature: Not determined.
 Viscosity: Not determined.
 Oxidising properties: Not determined.

9.2. Other information:
 VOC (EU): 709.9 g/l
 Organic solvent: 99.9 %

10. SECTION 10: Stability and reactivity

10.1. Reactivity: No further relevant information available.
 10.2. Chemical stability: No decomposition if used according to specifications.
 10.3. Possibility of hazardous reactions:
 No dangerous reactions known.
 10.4. Conditions to avoid: No further relevant information available.
 10.5. Incompatible materials: No further relevant information available.
 10.6. Hazardous decomposition products:
 Aldehydes, carbon dioxide, carbon monoxide.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects:
 Acute toxicity: Based on available data, the classification criteria are not met.

Relevant hazards for substance:
 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral	LD50	Rat	> 5840 mg/kg
Dermal	LD50	Rat	> 2920 mg/kg
Inhalative	LC50/4 h	Rat	< 23.3 mg/l

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	LD50	Rat	> 5840 mg/kg
Dermal	LD50	Rat	> 2920 mg/kg
Inhalative	LC50/4 h	Rat	< 25.2 mg/l

67-63-0 Propan-2-ol

Oral	LD50	Rat	5045 mg/kg
Dermal	LD50	Rabbit	12800 mg/kg
Inhalative	LC50/4 h	Rat	30 mg/l

5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	Rat	4400 mg/kg
Dermal	LD50	Rabbit	> 5000 mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
 Serious eye damage/irritation: Causes skin irritation.
 Respiratory or skin sensitization:
 Based on available data, the classification criteria are not met.
 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 Carcinogenicity: Based on available data, the classification criteria are not met.
 Reproductive toxicity: Based on available data, the classification criteria are not met.
 Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

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Specific target organ toxicity - repeated exposure: Based on available data, the classification criteria are not met.
 Aspiration hazard: May be fatal if swallowed and enters airways.
 Other information: No further relevant information available.

12. SECTION 12: Ecological information

12.1. Toxicity:

Aquatic toxicity: No further relevant information available.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Invertebrates:	EC50/48 h Daphnia magna	3 mg/l
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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Invertebrates:	EC50/48 h Daphnia magna	3 mg/l
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5989-27-5 (R)-p-mentha-1,8-diene

Invertebrates:	EC50/48 h Daphnia magna	0.67 mg/l
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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.

Additional ecological information:

General notes: Water danger class 2 (German Regulation) (Self-assessment): hazardous for water.
 Do not allow to enter water courses, ground water or drains.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Harmful to aquatic organisms.

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 disposal: Must not be disposed together with household garbage.
 Do not allow product to reach sewage system.
 European Waste Catalogue:
 07 01 04* other organic solvents, washing liquids and mother liquors (*hazardous waste)

Packagings disposal: Disposal must be made according to official regulations.
 European Waste Catalogue:
 15 01 10* packaging containing residues of or contaminated by hazardous substances (*hazardous waste)

Other disposal recommendations: Disposal must be made according to official regulations.
 The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. SECTION 14: Transport information

14.1. UN number:

ADR, IMDG, IATA UN 3295

14.2. UN proper shipping name:

ADR UN 3295 HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS, Special provisions: 640D

IMDG HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT

IATA HYDROCARBONS, LIQUID, N.O.S.

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14.3. Transport hazard class(es):

ADR



Class: 3 Flammable liquids

Hazard label: 3

IMDG



Class: 3 Flammable liquids

Hazard label: 3

IATA



Class: 3 Flammable liquids

Hazard label: 3

14.4. Packing group:

ADR, IMDG, IATA II

14.5. Environmental hazards:

The product contains environmentally hazardous substances:
(R)-p-mentha-1,8-diene; Naphtha (petroleum), hydrotreated light

Marine pollutant: Yes

Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6. Special precautions for user: Warning: Flammable liquids

EMS Number: F-E, S-D

Danger Code (Kemler): 33

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

ADR

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category 2

Tunnel restriction code D/E

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN „Model Regulation“: UN 3295, HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS,

Special provisions: 640D, 3, II

15. SECTION 15: Regulatory information

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

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Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
 Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values
 Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
 Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

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

16. SECTION 16: Other information

Relevant H-statements (Section 3):

- 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:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC50: Median effective concentration to 50% of a population

EC No.: EINECS and ELINCS Number

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

N.O.S.: Not Otherwise Specified entry

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

Reg. No.: Registration number

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Aquatic Acute 1: Hazardous to the aquatic environment, category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, category 2

Asp. Tox. 1: Aspiration hazard, category 1

Eye Irrit. 2: Serious eye irritation, category 2

Flam. Liq. 2: Flammable liquid, category 2

Flam. Liq. 3: Flammable liquid, category 3

Skin Irrit. 2: Skin irritation, category 2

Skin. Sens. 1: Skin sensitization, category 1

STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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.

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