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Reviewed on:	CLEANER 600	Version: 1.0

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

1.1. Product identifier:

Trade name: **CLEANER 600**
Product code: **1 04.6000**

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
Czech Republic

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. Hazard identification:

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
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:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves.

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P312 Call a POISON CENTER/doctor if you feel unwell.
P391 Collect spillage.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:

EC 927-510-4 hydrocarbons, C7, n-alkanes, isoalkanes, cyclics;
EC 921-024-6 hydrocarbons, c6-c7, n-alkanes, isoalkanes, cyclics, <5% n-hexane;
109-66-0 pentane;
67-64-1 acetone

Regulation (EC) No 648/2004:
Aliphatic hydrocarbons ≥ 30 %

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable
vPvB: Not applicable

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients with propellant

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: 109-66-0 EINECS: 203-692-4 Reg. No.: 01-2119459286-30	Pentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	10 - 20 %
CAS: 67-64-1 EINECS: 200-662-2 Reg. No.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5 - 10 %
CAS: 75-28-5 EINECS: 200-857-2 Reg. No.: 01-2119485395-27	Isobutane (contains less than 0.1 % butadiene) Flam. Gas 1, H220; Press. Gas C, H280	2.5 - 10 %
CAS: 124-38-9 EINECS: 204-696-9	Carbon dioxide Press. Gas, H280	2.5 - 10 %
CAS: 74-98-6 EINECS: 200-827-9 Reg. No.: 01-2119486944-21	Propane Flam. Gas 1, H220; Press. Gas C, H280	2.5 - 10 %

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

Regulation (EC) No 648/2004 on detergents:
aliphatic hydrocarbons ≥ 30 %

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 the exposed person to fresh air at once.
Keep the person warm and at rest.

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<p>After skin contact:</p> <p>After eye contact:</p> <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>Get medical attention if any discomfort continues.</p> <p>Take off immediately all contaminated clothing.</p> <p>Immediately wash with water and soap and rinse thoroughly.</p> <p>Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do.</p> <p>If eye irritation persists, get medical advice/attention.</p> <p>Do not induce vomiting.</p> <p>Immediately call for a doctor.</p> <p>No further relevant information available.</p> <p>No further relevant information available.</p>
<p>5. Section 5. Fire fighting measures:</p> <p>5.1. Extinguishing media:</p> <p>Suitable extinguishing agents:</p> <p>Unsuitable extinguishing agents:</p> <p>5.2. Special hazards arising from the substance or mixture:</p> <p>5.3. Advice for firefighters:</p>	<p>Carbon dioxide (CO₂), fire-extinguishing powder, foam.</p> <p>Water with full jet.</p> <p>Formation of explosive gas-air mixtures is possible.</p> <p>In combustion emits toxic fumes of carbon monoxide or carbon dioxides.</p> <p>Wear protective clothing and self-contained breathing apparatus.</p> <p>Cool endangered receptacles with water spray.</p> <p>Dispose 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.</p> <p>Keep unprotected persons away.</p> <p>Ensure adequate ventilation.</p> <p>Keep away from ignition sources.</p> <p>Do not allow to enter sewage system, surface or ground water.</p> <p>Inform respective authorities in case of seepage into water course or sewage system.</p> <p>Ensure adequate ventilation.</p> <p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</p> <p>Dispose contaminated material as waste according to Section 13.</p> <p>See Section 7 for information on safe handling.</p> <p>See Section 8 for information on personal protection equipment.</p> <p>See Section 13 for disposal information.</p>
<p>7. Section 7. Handling and storage:</p> <p>7.1. Precautions for safe handling:</p> <p>Protective measures:</p> <p>Measures to prevent fire:</p> <p>7.2. Conditions for safe storage, including any incompatibilities:</p> <p>Requirements for storage rooms and vessels:</p>	<p>Wear protective equipment, see Section 8.</p> <p>Ensure good ventilation/exhaustion at the workplace.</p> <p>Avoid contact with skin and eyes.</p> <p>Do not spray onto a naked flame or any incandescent material.</p> <p>Keep ignition sources away - Do not smoke.</p> <p>Protect against electrostatic charges.</p> <p>Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.</p> <p>Store in a cool, well-ventilated place.</p>

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Observe official regulations on storing packagings with pressurized containers.

Technical measures and storage conditions:
Observe official regulations on storing packagings with pressurized containers.

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	
109-66-0	Pentane	600	1800	-	-	-
67-64-1	Acetone	500	1210	1500	3620	-
124-38-9	Carbon dioxide	5000	9150	15000	27400	-

OEL: 2000/39/EG, 2006/15/EG, 2009/161/EG

CAS	Substance	Long-term		Short-term		Comments
		ppm	mg/m ³	ppm	mg/m ³	
109-66-0	Pentane	1000	3000	-	-	-
67-64-1	Acetone	500	1210	-	-	-
124-38-9	Carbon dioxide	5000	-	-	-	-

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.
Avoid breathing vapours/spray.
Avoid skin and eye contact.

Personal protection equipment:

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device.
Filter, type AX
In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection:

Tightly sealed goggles.

Hand protection:

Protective gloves.
The glove material must be impermeable and resistant against the product/
substance/preparation.
Material of gloves: Butyl rubber
Recommended thickness of the material: ≥ 0.7 mm
Penetration time of glove material: ≥ 60 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 suit.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Aerosol
Colour: Colourless
Odour: Solvent-like
Odour threshold: Not determined.
Value pH at 20 °C: Not determined.
Melting point/freezing point: Not determined.

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Initial boiling point/boiling range:	Not determined.
Flash point:	Not determined.
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.
– upper:	Not determined.
Vapour pressure at 20 °C:	Not determined.
Vapour density at 20 °C:	Not determined.
Density at 20°C:	0.696 g/cm ³
Relative density:	Not determined.
Solubility in/miscibility with:	
– water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	> 200 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Viscosity:	Not determined.
Oxidising properties:	Not determined.
9.2. Other information:	
Organic solvents:	96.6 %
VOC (EC):	672.0 g/l

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:	Carbon monoxide, carbon dioxide.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:	
Acute toxicity:	Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:	

ATE

Inhalative	LC50/4 h	Rat	39.8 mg/l
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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

109-66-0 Pentane

Oral	LD50	Rat	> 2000 mg/kg
Inhalative	LC50/4 h	Rat	5 mg/l

67-64-1 Acetone

Oral	LD50	Rat	5800 mg/kg
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Dermal	LD50	Rat	20000 mg/kg
Inhalative	LC50/4 h	Rat	76 mg/l

75-28-5 Isobutane

Inhalative	LC50/4 h	Rat	> 50 mg/l
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75-28-5 Propane

Inhalative	LC50/4 h	Rat	20 mg/l
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Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
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.
Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	May cause drowsiness or dizziness.
Other information:	No further relevant information available.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

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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109-66-0 Pentane

Invertebrates:	EC50/48 h	Daphnia magna	2.7 mg/l
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67-64-1 Acetone

Invertebrates:	EC50/48 h	Daphnia magna	8800 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.

Ecotoxic effects: Remark: Toxic for fish.

Additional ecological information:

General notes: Water danger class 2 (German Regulation) (Self-assessment):
hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Also toxic for water 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: 16 03 05* organic wastes containing hazardous substances
(*hazardous waste)

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Packagings disposal: Disposal must be made according to official regulations.
European Waste Catalogue: 15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*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 1950

14.2. UN proper shipping name:

ADR UN 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
IATA AEROSOLS, flammable

14.3. Transport hazard class(es):

ADR



Class 2 5 F Gases

Hazard label 2.1

IMDG



Class 2.1

Hazard label 2.1

IATA



Class 2.1

Hazard label 2.1

14.4. Packing group:

ADR, IMDG, IATA Void

14.5. Environmental hazards:

The product contains environmentally hazardous substances:

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: Gases

Danger Code (Kemler):

-

EMS Number: F-D, S-U

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

Not applicable.

Transport/ Additional information:

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category 2

Tunnel restriction code D

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

UN „Model Regulation“:

UN 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 2.1

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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

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):

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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)

ATE: Acute Toxicity Estimate

EC No.: EINECS and ELINCS Number

EC50: Median effective concentration to 50 % of a population

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

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

Reg. No.: Registration number

STOT: Specific target organ toxicity

TWA: Time weighted average

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Aerosol 1: Flammable aerosol, category 1

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

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Asp. Tox. 1: Aspiration hazard, category 1 CAS Chemical Abstracts Service (division of the American Chemical Society)

Flam. Gas 1: Flammable gas, category 1

Flam. Liq. 2: Flammable liquid, category 2

Press. Gas: Gases under pressure

Skin Irrit. 2: Skin irritation, category 2

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.**