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

- 1.1. Product identifier:
Trade name: **MS CLEAN**
Product code: **R 34748**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Universal cleaning and degreasing agent.
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: Hazards 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:
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/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.

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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.

Labelling of packages where the contents do not exceed 125 ml (section 1.5 of Annex I to CLP):



Signal Word: Danger

Hazard Statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary Statements:

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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Contained dangerous substances:

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics;

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

Regulation (EC) No 648/2004:

aliphatic hydrocarbons ≥ 30 %; parfum, limonene < 5 %

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: 75-28-5 EINECS: 200-857-2	Isobutane Flam. Gas 1, H220; Press. Gas, 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	Propane Flam. Gas 1, H220; Press. Gas, H280	2.5 - 10 %

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

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Regulation (EC) No 648/2004 on detergents:
aliphatic hydrocarbons $\geq 30\%$; 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 the exposed person to fresh air at once.

Keep the person warm and at rest.

Get medical attention if any discomfort continues.

After skin contact: Take off immediately all contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

If eye irritation persists, get medical advice/attention.

After swallowing: Do not induce vomiting.

Immediately call for a doctor.

4.2. Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO₂), fire-extinguishing powder, alcohol-resistant foam.

Unsuitable extinguishing agents:

Water with full jet.

5.2. Special hazards arising from the substance or mixture:

Formation of explosive gas-air mixtures is possible.

In combustion emits toxic fumes of carbon monoxide or carbon dioxides.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

Cool endangered receptacles with water spray.

Dispose contaminated extinguishing water and remains after the fire

in accordance with the official regulations.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective equipment see Section 8.

Keep unprotected persons away.

Ensure adequate ventilation.

Keep ignition sources away.

6.2. Environmental precautions:

Do not allow to enter 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 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. Precautions for safe handling:

Protective measures:

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

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Measures to prevent fire: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
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.
Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions:

Store in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Store in a cool, well-ventilated place.

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	
124-38-9	Carbon dioxide	5000	9150	15000	27400	

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

CAS	Substance	Long-term (Eight hours)		Short-term		Comments
		ppm	mg/m ³	ppm	mg/m ³	
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 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: Nitrile rubber

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 suit.

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9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Form:	Aerosol
Colour:	Colorless
Odour:	Orange-like
Odour threshold:	Not determined
Value pH at 20 °C:	Not determined
Melting point/freezing point:	Not determined
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:	0.691 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:	Not determined
Viscosity:	Not determined
Oxidising properties:	Not determined
9.2. Other information:	
Organic solvents:	96.2 %
VOC (EC):	664.6 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, aldehydes.

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:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral	LD50	Rat	> 5840 mg/kg
Dermal	LD50	Rat	> 2920 mg/kg
Inhalativ	LC50/4h	Rat	> 23300 mg/l

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

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

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75-28-5 Isobutane

Inhalativ	LC50/4h	Rat	> 50 mg/l
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74-98-6 Propane

Inhalativ	LC50/4h	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 be fatal if swallowed and enters airways.
Other information:	No further relevant information available.

12. SECTION 12: Ecological information

12.1. Toxicity:

Aquatic toxicity:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

Invertebrate	EC50/48 h	Daphnia magna	3 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. 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)

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)

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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, d-limonene
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:
ADR
Limited quantities (LQ) 1L
Transport category 2
Tunnel restriction code D
UN "Model Regulation": UN 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 2.1

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)

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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.
- 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)
- 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
- 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
- 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.

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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.**