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Reviewed on:	SHOE & GENERAL DISINFECTANT	Version: 2.0

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

1.1. Product identifier:

Trade name: **SHOE & GENERAL DISINFECTANT**
Product code: **R 30297**

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Uses of the mixture: Deodorizing spray.
Uses advised against: Not known.

Sector of use category (SU):

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category (PROC):

PROC7 Industrial spraying
PROC11 Non industrial spraying

Environmental release category (ERC):

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8d Wide dispersive outdoor use of processing aids in open systems

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.
Eye Irrit. 2 H319 Causes serious eye irritation.

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.
H319 Causes serious eye irritation.

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.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
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.

Supplemental Hazard information (EU):
EUH208 Contains d-limonene. May produce an allergic reaction.

Regulation (EC) No 648/2004:
aliphatic hydrocarbons ≥ 30 %; parfum (limonene) < 5 %

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:
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Supplemental Hazard information (EU):
EUH208 Contains d-limonene. May produce an allergic reaction.

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:

CAS: 106-97-8 EINECS: 203-448-7 Reg. No.: 01-2119474691-32	Butane (containing < 0.1 % butadiene) Flam. Gas 1, H220; Press. Gas, H280	75 -< 100 %
CAS: 64-17-5 EINECS: 200-578-6 Reg. No.: 01-2119457610-43	Ethanol Flam. Liq. 2, H225	10 -< 25 %

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CAS: 5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	0.1 -< 0.25 %
EINECS: 227-813-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315;	
Reg. No.: 01-2119529223-47	Skin Sens. 1, H317; Aquatic Chronic 1, H410	

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

Regulation (EC) No 648/2004 on detergents:

aliphatic hydrocarbons ≥ 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 affected person to fresh air.
 Get medical attention if any discomfort continues.
 After skin contact: Generally the product does not irritate the skin.
 After eye contact: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do.
 Get medical attention if any discomfort continues.
 After swallowing: Do not induce vomiting.
 Immediately call 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, water spray, alcohol resistant foam.

Unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

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.

6.2. Environmental precautions:

Do not allow to enter sewers, 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.

Do not flush with water or aqueous cleansing agents.

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:

Wear protective equipment see Section 8.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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Measures to prevent fire: Do not spray onto a naked flame or any incandescent material.
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.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Observe official regulations on storing packagings with pressurized containers.

Technical measures and storage conditions:

Store in a cool 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	
106-97-8	Butane	600	1450	750	1810	Carc. (only applies if Butane contains more than 0.1 % of buta-1,3-diene)
64-17-5	Ethanol	1000	1920	-	-	-

OEL: 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:

Wash hands before breaks and at the end of work.

Personal protection equipment:

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device.

Filter: AX/P2

In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection:

Tightly sealed goggles.

Hand protection:

Protective gloves.

Solvent resistant gloves.

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

Material of gloves: Nitrile rubber

Penetration time of glove material:

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.

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Odour:	Solvent-like.
Odour threshold:	Not determined.
Value pH at 20 °C:	Not determined.
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	0 °C
Flash point:	-60 °C
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosive limits:	
– lower:	1.5 Vol %
– upper:	15.0 Vol %
Vapour pressure at 20 °C:	2100 hPa
Vapour density at 20 °C:	Not determined.
Density at 20 °C:	0.606 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:	365 °C
Decomposition temperature:	Not determined.
Self-ignition temperature:	Product is not selfigniting.
Viscosity:	Not determined.
Oxidising properties:	Not determined.
9.2. Other information:	
Organic solvent:	98.4 %
VOC (EU):	596.5 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:	No dangerous decomposition products known.

11.* Section 11. Toxicological information:

11.1. Information on toxicological effects:	
Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye 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:	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Other information:	No further relevant information available.

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12. Section 12. Ecological information:

- 12.1. Toxicity:
Aquatic toxicity: No further relevant information available.
- 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:
Additional ecological information:
General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 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)
- 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
IMDG AEROSOLS
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:

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ADR, IMDG, IATA	Void.
14.5. Environmental hazards:	
Marine pollutant:	No
14.6. Special precautions for user:	Warning: Gases
EMS:	F-D, S-U
Danger Code (Kemler):	-
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
Tunnel restriction code:	D
Transport category:	2
UN "Model Regulation":	UN 1950, AEROSOLS, 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) 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. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very 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) EINECS: European Inventory of Existing Commercial Chemical Substances IATA: International Air Transport Association IMDG: International Maritime Code for Dangerous Goods

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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
Aerosol 1: Flammable aerosol, category 1
Aquatic Acute 1: Hazardous to the aquatic environment, category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, category 1
Eye Irrit. 2: Serious eye irritation, category 2
Flam. Gas 1: Flammable gas, category 1
Flam. Liq. 2: Flammable liquid, category 2
Flam. Liq. 3: Flammable liquid, category 3
Press. Gas: Gases under pressure
Skin Irrit. 2: Skin irritation, category 2
Skin. Sens. 1: Skin sensitization, category 1

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.**