VIRUTON EXTRA

MEDISEPT

Update date: 03.10.2018

Date of issue: 11.03.2014

Version ENG: 6.0

Material Safety Data Sheet according to Regulation EC 1907/2006 – REACH and 830/2015 of 28.05.2015r.

SECTION 1: Identification of the substance / mixture and company identification

1.1 Product identifier: VIRUTON EXTRA

1.2 Relevant identified uses of the substance or mixture and uses advised against: Identified use: Concentrate for medical tool disinfection. Professional use only.

The use discouraged: not specified

1.3 Details of the supplier of the safety data sheetManufacturer:Medi-Sept Sp. z o.o.
Konopnica 159C
21-030 Motycz, Poland
tel. 048 81 503 23 77
www.medisept.pl

E-mail of the person responsible for the safety data sheet: : g.gromadzki@medisept.pl

1.4 Emergency telephone number:

112 (general emergency number)

+48 81 535 22 22 at time: 8.00 a.m. – 4.00 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

In accordance with Regulation 1272/2008: Acute Tox. 4; H302 Skin Corr.1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

The threat to human health

Harmful if swallowed. Causes serious burns and eyes damage; May cause damage to organs through prolonged or repeated exposure **Environmental hazards** Very toxic to aquatic life with long-lasting effects **Physical/chemical hazards** No.

2.2 Label elements: Pictograms:



Signal word: Danger

045-

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Hazard statements

H302 – Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long-lasting effects

Phrases indicating conditions of safe use:

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. **P305 + P351 + P338 –** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

Contains:

N-(3-aminopropylo)-N-dodecylopropane- 1,3–diamine (CAS: 2372-82-9) N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium propionate (94667-33-1); Didecyldimethylammonium chloride (CAS: 7173-51-5)

In accordance with Regulation 648/2004 5-15% cationic surfactant <5% nonionic surfactant Perfume (LIMONENE) Enzyme (subtilisin)

The surfactants comply with the biodegradability in accordance with Reg. 648/2004 List of components available on website: <u>http://www.medisept.pl/</u>

2.3 Other hazards:

No information as to the compliance with PBT or vPvB criteria, as per Annex XIII to the REACH regulation.

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable

3.2 Mixture: Hazardous components

| | | Classification CLP | |
|--|--------------|--|--------------------------------------|
| Product identifier | Content % | Hazard class and category codes | Codes hazard statements |
| N-(3-aminopropylo)-Ndodecylopropane- 1,3-diamine Index No.: CAS: 2372-82-9 EC: 219-145-8 No. REACH: 01-2119980592-29-XXXX | <12 | Acute Tox.3 Skin Corr.1A STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1 | H301 H314 H373 H400 H410 |
| Propan-2-ol CAS: 67-63-0 Index No.: 603-117-00-0 EC: 200-661-7 No. REACH: 01-2119457558-25-XXXX | 2,5 - 6 | Flam. Liq. 2 Eye Irrit.2 STOT SE 3 | H225 H319 H336 |

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| Diethylene glycol monobutyl ether | | | |
|---|-------|--------------------------------------|--------------|
| CAS: 112-34-5 | | F I N O | 11010 |
| EC: 203-961-6 | 3 - 6 | Eye Irrit. 2 | H319 |
| Index No.: 603-096-00-8 | | | |
| No. REACH: 01-2119475104-44-XXXX | | | |
| Etoxylated alcohols, C9-11, EO 5-20 | | | |
| CAS: 160901-09-7 | | Acute Tox. 4 | H302 |
| EC: 500-446-0 | < 2 | Eye Dam.1 | H318 |
| No index: - | | , | |
| <u>No. REACH</u> : 01-2119979533-26-0000 | | | 11000 |
| Limonene | | Flam. Liq. 3 | H226 |
| CAS: 138-86-3 | | Skin Irrit. 2 | H315 |
| Index No.: 601-029-00-7 | <1 | Skin Sens. 1 | H317 |
| EC: 205-341-0 | | Aquatic Acute 1 | H400 |
| No. REACH: 01-2120766421-57-0000 | | Aquatic Chronic 1 | H410 |
| N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium | | Acute Tox.4 | H302 |
| propionate CAS: 94667-33-1 | | Skin Corr.1B | H314 |
| | <3,5 | Aquatic Acute 1 | H314 H400 |
| Index No.: polymer EC: 619-057-3 | | Aquatic Acute 1 Aquatic Chronic 1 | H400 H410 |
| No. REACH: 01-2119950327-36-0000 | | Aquatic chronic 1 | 1410 |
| Ethano-1,2-diol | | | |
| CAS: 107-21-1 | | | |
| EC: 203-473-3 | <2,5 | Acute Tox.4 | H302 |
| Index No.: 603-027-00-1 | ~2,5 | STOT RE 2 | H373 |
| No. REACH: 01-2119456816-28 | | | |
| | | | H332 |
| Didecyldimethylammonium chloride | | Acute Tox.4 | H312 |
| CAS: 7173-51-5 | | Skin Corr.1B | H302 |
| EC: 230-525-2 | <2,5 | STOT SE 3 | H314 |
| Index No.: | | Aquatic Chronic 3 | H335 |
| No. REACH: 01-2119945987-15-0003 | | | H412 |
| Full text of H phrases In Section 16 | | | |

Full text of H phrases In Section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Skin contact:

Remove contaminated clothing, wash affected skin with soap and water, rinse thoroughly with water. In the event of an irritation, erythema, contact your doctor.

Eye contact:

Rinse eyes for several minutes (approx. 15) with plenty of water, holding the eyelids apart. Avoid strong stream, due to the risk of cornea damage, consult a doctor.

Inhalation:

In case of dizziness or nausea, remove casualty to fresh air, in the absence of rapid improvement, seek medical advice.

Ingestion:

Do not induce vomiting, rinse your mouth. Immediately contact your doctor.

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

Respiratory system: Inhalation of concentrated vapours may cause irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system.

Digestive tract: Ingestion causes irritation of the mucous membranes of the gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headaches and dizziness - symptoms of food poisoning. **Eye contact:** Causes serious eye damage.

Skin contact: Cause skin damage.

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

Decision on the rescue procedure is taken by a doctor following thorough examination of victim's condition

SECTION 5: Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam or dry chemicals (A, B, C), carbon dioxide (fire-extinguisher), sand or soil, water spray. Use fire extinguishing methods suitable to the environment.

Unsuitable extinguishing media: A strong stream of water.

5.2 Special hazards arising from the substance or mixture:

During a fire, under the action of heat release toxic decomposition products containing min. carbon oxides, nitrogen oxides.

5.3 Advice for fire-fighters:

Cool containers with spray water. If possible remove from the danger zone. As in any fire, wear self-contained breathing apparatus and full protective gear. Prevent fire-fighting water from entering surface water, ground water and sanitation.

SECTION 6: Accidental release measures

6. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Inform the appropriate service. Remove from the hazardous area people not involved in liquidation of failure.

For emergency responders: Ensure adequate ventilation, use personal protective equipment. Do not breathe vapors.

6.2 Environmental precautions:

Prevent from spreading or entering into drains and reservoirs, to inform local authorities if you fail to provide protection.

6.3 Methods and material for containment and cleaning up :

Absorb with liquid-binding material (sand, sawdust, diatomaceous earth, universal absorbent). Contaminated material placed in properly labeled containers. The contaminated material placed in properly labeled containers for disposal in accordance with applicable regulations.

6.4 Reference to other sections:

Waste product handling – see section 13 of the Safety Data Sheet. Individual protection measures – see section 8 of the Safety Data Sheet.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling:

Use in well-ventilated area. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid spilling or splashing. Avoid breathing vapors. Avoid sources of ignition, heat, hot surfaces and open flames. Work in accordance with safety and hygiene: Do not eat, drink and smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated properly labeled original container tightly closed. Avoid direct sunlight and heat sources, hot surfaces and open flames. Store at temperature 5-25 C.

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7.3 Specific end use(s):

Concentrate for medical tool disinfection. Professional use only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Exposure standards for occupational hazards in accordance with the Regulation of the Minister of Labour and Social Policy of 6 June 2014 on maximum permissible concentration and intensity of harmful factors in the work environment (polish Journal of Laws, item. 817).

Exposure limits (ACGIH):

| | TWA | STEL | |
|-----------------------------------|-----|------|--|
| Name / type of substance | ppm | | |
| Propan-2-ol | 900 | 1200 | |
| Diethylene glycol monobutyl ether | 67 | 100 | |
| Ethano-1,2-diol | 15 | 50 | |

DNEL Values for Ethano-1,2-diol

<u>Worker, skin, long exposure</u> systemic effect: 106 mg/kg/d <u>Worker, inhalation, long exposure</u>, systemic effect: 35mg/m³ <u>User, skin, long exposure</u>, systemic effect: 53 mg/kg/d <u>User, inhalation, long exposure, local effect</u>: 7mg/m³

DNEL Values for Diethylene glycol monobutyl ether

<u>Worker, skin, long exposure</u> systemic effect<u>:</u> 101,2 mg/kg/d <u>Worker, inhalation, long exposure</u>, systemic effect: 20mg/m³ <u>User, skin, long exposure</u>, systemic effect: 67,5 mg/kg/d <u>User, inhalation, long exposure, local effect</u>: 67,5mg/m³

DNEL Values for Propan-2-ol

<u>Worker, skin, long exposure</u> systemic effect<u>:</u> 888 mg/kg/d <u>Worker, inhalation, long exposure</u>, systemic effect: 500mg/m³ <u>User, skin, long exposure</u>, systemic effect: 319 mg/kg/d <u>User, inhalation, long exposure, local effect</u>: 89mg/m³ <u>User, oral, long exposure</u>, systemic effect: 26 mg/kg/d

PNEC Values for Propan-2-ol

Fresh water: 140,9mg/l Seawater: 140,9mg/ Periodic release: 190mg/l Fresh water sludge: 552mg/kg Seawater sludge: 552mg/kg Sewage plant: 2251 mg/l Soil: 28mg/kg

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8.2 Exposure controls:

Technical solutions: recommended well-ventilated areas. Individual protection measures, such as personal protective equipment (if working with concentrated product):



Eye and face protection:

Wear safety glasses or full face mask (according to EN 166).

Skin protection:

Hand protection:

Wear protective gloves resistant to chemicals made of nitrile rubber, natural rubber or PVC, in accordance with EN-PN 374: 2005.

Gloves material:

Choice of suitable gloves do not depend only on material but brand and quality. Material resistance can be defined after testing. Exact destruction time must be declared by manufacturer. *Other*:

Wear appropriate protective work wear (according to EN 344) - wash regularly.

Respiratory protection:

Do not breath vaporous

Thermal hazards:

Not applicable.

Environmental exposure controls:

Do not allow to spread in the environment and enter drains and watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

| Appearance | Liquid | |
|---------------------|------------------------------|--|
| Colour | Transparent, light yellow | |
| Odour | Specific, alcoholic, ammonia | |
| Odour threshold | Not specified | |
| pH | 11,1±0,75 | |
| Melting point/range | >0°C< | |
| Boiling point/range | approx 100 °C | |
| Flash point | >100 °C | |
| Ignition | Not specified | |
| Evaporation rate | Not specified | |

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| Flammability (solid, gas) | Not specified | |
|----------------------------------|-----------------------------|--|
| Lower explosive limit | 0,9%obj. | |
| Higher explosive limit | 12,0% obj. | |
| Vapour pressure at 20 ° C | Not specified | |
| Relative vapor density | Not specified | |
| Density at 20 °C | 0,980±0,005 g/cm3 | |
| Solubility in solvents | Completely soluble in water | |
| Coefficient of n-octanol / water | Not specified | |

9.2 Other information: No additional test results.

SECTION 10: Stability and reactivity

10.1 Reactivity : Unknown
10.2 Chemical stability: The product is stable under normal conditions of use, storage and transport.
10.3 Possibility of hazardous reactions: No
10.4 Conditions to avoid : Avoid high temperature, direct sunlight, hot surfaces and open fire.
10.5 Incompatible materials : Strong alkali and acids, ammonia, strong oxidizers
10.6 Hazardous decomposition products : At high temperatures, they release toxic products of decomposition - carbon oxides and nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects: a) Acute toxicity: **Harmfull if swallowed (ATE mix doustnie:1613mg/kg) N-(3-aminopropylo)-Ndodecylopropane-1,3-diamine** LD50 (oral, rat): 261mg/kg (OECD 401) LD50 (rat,skin): >600 mg/kg (OECD 402) NOAEL (oral, rat): 9mg/kg, 90d NOAEL (skin, oral): 15 mg/kg, 90d NOAEL (oral, dog): 20mg/kg, 90d

Ethano-1,2-diol LD50 >300 - <=2000 mg/kg Terpens: LD50 (oral, rat): 5000mg/kg LD50 (skin, rabbit): >2000mg/kg LD50 (skin, rat): >2000mg/kg Mixture of oxyethylenated fatty alcohols C9-C11, 5-20TE LD50 (oral, rat): >1200mg/kg b) irritation effect: causes serious skin damage c) corrosive effect: causes serious eye damage d) allergic effect: not recognized

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e) repeated dose toxicity: not recognized

f) carcinogenicity: not recognized

g) mutagenicity: not recognized

h) reproductive toxicity: not recognized

Information on likely routes of exposure:

The respiratory system. Inhalation of concentrated vapours may cause irritation of the mucous membranes of the nose, throat and downstream sections of the respiratory system, cough, shortness of breath, trouble breathing. May cause drowsiness or dizziness

The digestive tract: May cause irritation of the mucous membranes of the gastrointestinal tract, abdominal pain, stomach cramps, nausea, vomiting, diarrhea, malaise, headache and dizziness – symptoms of food poisoning. Eye contact: causes serious eye damage

Contact with skin: causes serious skin damage

Delayed, immediate and chronic effects from short-and long-term exposure:

No data.

Interaction effect:

No data.

SECTION 12: Ecological information

Detailed studies of the environmental effects were not carried out. Harmful to aquatic life with long-lasting effects.

12.1 Toxicity:

N-(3-aminopropylo)-Ndodecylopropane-1,3-diamine Toxicity to fish Oncorhynchus mykiss LC50: 0,68 mg/l, 96h Lepomis macrochirus LC50: 0,45 mg/l, 96h Toxicity for crustacean (Daphnia magna): EC50: 0,073 mg/l, 48h NOEC: 0,024mg/l, 21d Toxicity to algae: Pseudokirchneriella subcapitata ErC50: 0,054 mg/l, 96h Desmodesmus subspicatus: ErC50: 0,012mg/l, 72h NOEC (Desmodesmus subspicatus): 0,0069mg/l, 72h **Didecyldimethylammonium chloride** Toxicity to fish (Pimephales pro melas): LC50 0,19mg/l, 96h NOEC (Danio rerio): 0,032 mg/l, 34d Toxicity to crustacean (Daphnia magna): EC50: 0,062 mg/l, 48h NOEC (Daphnia magna): 0,014 mg/l, 96h Toxicity to algae (Pseudokirchneriella subcapitata): ErC50: 0,026 mg/l, 96h Toksyczność dla bakterii (osad czynny): EC50 11 mg/l, 3h Ethano-1,2-diol Toxicity to fish LC/EC/IC50 > 100 mg/l NOEC/NOEL > 100 mg/l Toxicity for crustacean LC/EC/IC50 > 100 mg/l NOEC/NOEL > 100 mg/l Toxicity to algae LC/EC/IC50 > 100 mg/l N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium propionate Toxicity to fish: Danio rerio: LC50 0,78 mg/l, 96h Toxicity to crustacean (Daphnia magna): EC50: 0,07mg/l, 48h Toxicity to algae Desmodesmus subspicatus: ErC50: 0,15 mg/l, 72h (OECD 201) Propan-2-ol

Toxicity to fish (Pimephales promelas): LC50: 9640mg/l, 96h Toxicity for crustacean (Daphnia magna): EC50 1299mg/l, 48h Toxicity to algae (Scenedesmus subspicatus): EC50 1000mg/l, 72h **Terpens**

Toxicity to fish: (Leuciscus idus): LC50: 34mg/l, 48h; LC0: 26mg/l, 48h

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Toxicity to crustacean (Daphnia magna): EC50 34,1mg/l, 48h

12.2 Persistence and degradability: Surfactants are included in the product are consistent with the regulations concerning biodegradation. N-(3-aminopropylo)-Ndodecylopropane-1,3-diamine biodegradation OECD: ok. 96%, 12 - 15d (OECD 303A) Test Zahn-Wellensa: 91%, 28d Method: (OECD 302B) Test closed-bottle: 79% readily biodegradable, 28d (OECD 301D) Mineralization: 73,8%, 28d Mixture of oxyethylenated fatty alcohols C9-C11, 5-20TE 76% readily biodegradable, 28d (OECD 301F) Ethano-1,2-diol Readily biodegradable Propan-2-ol Biological need for: 1,19aO₂/a Chemical need for oxygen: 2,23g O₂/g Didecyldimethylammonium chloride Modified Sturm's test: 72 % readily biodegradable: 28d Die-Away Test: 93,3 % period: 28 d OECD: 91 % period: 24 - 70d 12.3 Bioaccumulative potential: Propan-2-ol BCF: 3 Log Po/w: 0,05 Bioaccumulative potential: low

12.4 Mobility in soil:

Mobile in the soil, dissolved in water and spread in an aquatic environment. **Propan-2-ol** Ko/c: 1,5: high mobility

Ethano-1,2-diol Soluble in water. 12.5 Results of PBT and vPvB assessment: No data. 12.6 Other adverse Effects: No data.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorized for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed with municipal waste. Empty containers may be used at waste incinerators or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

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SECTION 14: Transport information

| | ADR/RID | IMDG | ΙΑΤΑ | |
|--|---|--|---|--|
| Transport route | Road/Rail | Maritime | Air | |
| 14.1 – UN number | 1903 | 1903 | 1903 | |
| 14.2 – Proper transport name UN | DISINFECTANT, LIQUID, CORROSIVE, N.O.S. | DISINFECTANT, LIQUID, CORROSIVE, N.O.S. | DISINFECTANT, LIQUID, CORROSIVE, N.O.S. | |
| 14.3 – Transport hazard class(es): | | 8 | 1 | |
| 14.4 – Packing group | III | III | III | |
| 14.5 – Environmental hazards | | | | |
| 14.6 – Special precautions for users | Transport in sealed containers, vertical, labelled. | | | |
| Detailed rules | 274 | 223,274 | A3 | |
| Packing instructions | P001, IBC02 | P001, IBC03, LP01 | Civil airplanes: - Packaging instructions: 852-max netto package volume: 5L Transport airplanes: - Packaging instructions: 856- max netto package volume: 50 L | |
| LQ | 5L | 5L | - Packaging instructions Y841 - max count, netto package volume:1 L | |
| EQ | E1 | E1 | E1 | |
| EmS | Not applicable | F-A, S-B | Not applicable | |
| 14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable, the product is not classified as hazardous during transport | classified as hazardous during | Not applicable, the product is not classified as hazardous during transport | |

SECTION 15: Regulatory information

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

- 1. The ordinance 1907/2006 (EC) of the European Parliament and Council, dated in 18 December 2006, on registration, evaluation, permissions and restrictions for chemicals (REACH), along with later modifications.
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).
- 3. Law of 25 February 2011 on chemical substances and their mixtures (Journal of Laws No. 63, item. 322, along with later modifications)
- 4. European Parliament and Council Regulation of 16 December 2008 no. 1272/2008 (CLP) along with later modifications.
- 5. Ministry of Health Regulation of 20 April 2012 on dangerous substances and mixtures container labelling and certain mixtures (Journal of Laws 2012 No. 0 item. 445, along with later modifications)
- 6. Ministry of Health Regulation of 10 August 2012 on classification types and criteria of chemical substances and their mixtures (Journal of Laws 2012 item. 1018, along with later modifications)

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- 7. Law of 9 December 2012 on waste list (Journal of Laws 2013 No. 0, item.21).
- 8. The Law of 13 June 2013 on packaging and packaging waste (Journal of Laws 2013, item. 888).
- Regulation of the Minister of Environment of 9 december 2014 on waste catalog (Journal of Laws No. 1923)
- 10. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.
- 11. The Law of 19 August 2011. on the transport of dangerous goods (Journal of Laws No. 227, item. 1367)
- 12. Government Statement of 23 March 2015. On the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957. (Journal of Laws 2015, item. 882).
- 13. Regulation of the Minister of Labour and Social Policy of 6 June 2014 on maximum permissible concentration and intensity of harmful factors in the work environment (Journal item. 817).
- 14. Regulation of the Minister of the Environment of 9 December 2003 on substances posing a particular threat to the environment (Journal of Laws No. 217, item.2141).

15.2 Chemical safety assessment: No chemical safety assessment for the mixture.

SECTION 16: Other information

Phrases H: H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour H301 Toxic if swallowed H302 - Harmful if swallowed H314 Causes severe skin burns and eye damage H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H319 Causes serious eye irritation H336 May cause drowsiness or dizziness H373 May cause damage to organs through prolonged or repeated exposure 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 H412 Harmful to aquatic life with long-lasting effects Description of used abbreviations, acronyms and symbols: Flam. Lig.2 Highly flammable liquid and vapour cat 2 Flam. Lig.3 Highly flammable liquid and vapour cat 3 Acute Tox. 3 - acute toxicity cat. 3 Acute Tox. 4 – acute toxicity cat. 4 Skin Corr.1A - corrosive effect on skin cat.1A Skin Corr.1B - corrosive effect on skin cat.1B Skin Irrit.2 - skin irritation cat.2 Skin Sens. 1 – skin allergy cat.1 Eye Dam, 1 - causes serious eye damage, cat.1 STOT SE 3 Specific target organ toxicity - single exposure - cat 3 STOT RE 2 Specific target organ toxicity - repeatable exposure - cat 2 Aquatic Acute 1 - dangerous to aquatic environment cat.1 Aquatic Chronic 1 - dangerous to aquatic environment cat.1 Aquatic Chronic 2 – dangerous to aquatic environment cat.2 LC50 – (ang. lethal concentration) medium mortality dose of 50% in population of test organisms in long exposure LC50 - (ang. lethal concentration) medium mortality dose of 50% in population of test organisms in 1 time exposure NOAEL (no observed adverse effects level) - the highest experimental point that is without adverse effect **TWA** – Time weighted Average exposure limit STEL – Acceptable Ceiling **DNEL** - (Derived no-effect level) is the level of exposure to a substance above which humans should not be exposed.

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PNEC (Predicted No Effect Concentration) is the concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured.

IATA International Air Transport Association

ADR a treaty governing transport of hazardous materials

IMDG International Maritime Dangerous Goods Code is accepted as an international guideline to the safe transportation or shipment of dangerous goods or hazardous materials by water on vessel

Training:

Before working with product carry out OSH training for stuff related to the presence of chemical factor in the work environment. Carry out, register and inform employees about the evaluation of professional risk of working in presence of chemical factors

11.03.2014

6.0 of 03.10.2018 section 1, 3, 13, 14, 15

MATERIAL SAFETY DATA SHEET - VIRUTON EXTRA

Version ENG

Changes:

SOURCE MATERIALS

Appendix I of EC Regulation 2015/830 of 28 May 2015 Regulations detailed in Section 15 of this document Information of Bureau for Chemical Substance. MSDS – MEDI-LINE VIRUTON EXTRA v 5.0

The information provided in this Safety Data Sheet concern only in the title mentioned product. The information given is designed as a guidance for safe handling, use, storage, transportation, disposal and it is not to be considered as legal warranty. In any case, you must comply with the laws and the possible rights of third parties. Sheet is not workplace risk assessment. Product cannot be used in other purpose then mentioned in section 1 without previous consultation with **Medi-Sept Sp z o.o.**