


SAFETY DATA SHEET

According to the Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010

Date of issue: 20.2.2014	Replaces issue from: -
Date of revision: -	
Product name: TREFFER VLEK VRIJ	Page: 1/5

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: Name: TREFFER VLEK VRIJ Registration number: Not applied for the mixture
1.2	Relevant identified uses of the mixture: cleaner Uses advised against: unknown
1.3	Details of the supplier of the safety data sheet: Remark Groep The full address: Industrieweg 247949 AK Rogat, Nederlands Telephone: 0031 522 - 44 22 24 E-mail address for a competent person responsible for the safety data sheet:
1.4	Emergency telephone number: (information only for health risks – acute intoxication of humans and animals)

2.	HAZARDS IDENTIFICATIONS		
2.1	<table border="0"> <tr> <td>Classification of the mixture according to Regulation 2008/1272/EC: Aerosol, cat.1, H222, 229 Skin Irritating, cat.2, H315 Skin Sensitising, cat.1, H317 Aquatic Chronic, cat.1, H410</td> <td>Classification of the mixture according to Directive 67/548/EEC: Extremely flammable, F+, R12 Irritant, Xi, R38 Sensitising, R43 Dangerous to environment, N, R50/53</td> </tr> </table> <p>The most important adverse effects: - physical and chemical: The mixture is classified as Aerosol, cat.1 - on the human health: The mixture is classified as Skin Irritating, cat.2 and Skin Sensitising, cat.1 - on the environment: The mixture is classified as Aquatic Chronic, cat.1</p>	Classification of the mixture according to Regulation 2008/1272/EC: Aerosol, cat.1, H222, 229 Skin Irritating, cat.2, H315 Skin Sensitising, cat.1, H317 Aquatic Chronic, cat.1, H410	Classification of the mixture according to Directive 67/548/EEC: Extremely flammable, F+, R12 Irritant, Xi, R38 Sensitising, R43 Dangerous to environment, N, R50/53
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2.2	<p>Label elements according to Regulation 2008/1272/EC:</p> <p style="text-align: center;">  </p> <p>Hazard pictogram(s): Signal word(s): Danger Hazard statement(s): H 222 Extremely flammable aerosol. H 229 Pressurised container: May burst if heated. H 315 Causes skin irritation. H 317 May cause an allergic skin reaction. H 410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s): P 102 Keep out of reach of children. P 210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P 211 Do not spray on an open flame or other ignition source. P 251 Do not pierce or burn, even after use. P 261 Avoid breathing spray. P 273 Avoid release to the environment. P 280 Wear protective gloves. P 410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P 501 Dispose of contents as hazardous waste. Dispose of container to separated waste.</p> <p>Other usable label elements: Contains: Orange, sweet, ext. (D-Limonene), 30% and more aliphatic hydrocarbons</p>		
2.3	Other hazards: none		

3.	COMPOSITION/INFORMATION ON INGREDIENTS							
The product (mixture) contains these hazardous ingredients:					Classification according to 67/548/EU		Classification according to 1272/2008/EU	
Chemical name	Range of content %w/w	Reg. No	CAS	EC	Symbol letter	R-phrases*	Hazard classes, Category codes *	H-phrases *
Orange, sweet, ext. (R)-p-mentha-1,8-diene (D-limonene)	50-60	01- 2119493353- 35	8028-48-6	232-433-8	Xi, N	10,38,43,50/ 53,65	Flam.Liq.3 Skin Irrit. 2 Skin Sens. 1 Asp.Tox. 1 Aquatic Acute 1 Aquatic Chron.2	226 315 317 304 400 410

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Isobutane	<50	01- 2119485395- 27	75-28-5	200-857-2	F+	12	Flam. Gas 1 Press gas	220
Butane	<5	01- 2119474691- 32	106-97-8	203-448-7	F+	12	Flam. Gas 1 Press gas	220
Propane	<5	01- 2119486944- 21	74-98-6	200-827-9	F+	12	Flam. Gas 1 Press gas	220

Notes: * full wording of R-phrases a H-phrases here listed see part 16.
The values of exposition limits are listed in the part 8, if are established

4.	FIRST AID MEASURES
4.1	Description of first aid measures: Inhalation: Remove to fresh air. Skin contact: Wash skin with water and soap. Eyes contact: Flush with plenty of pure water. In case of persistent inflammation, take the advice of ophthalmologist. Ingestion: Do not induce vomiting! Obtain medical attention.
4.2	Most important symptoms and effects: Eyes contact: tingle to pain. Skin contact: irritation
4.3	Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required only in case of ingestion of a big amount of the mixture.

5.	FIREFIGHTING MEASURES
5.1	Extinguishing media: foam, dry chemical, carbon dioxide, water mist Unsuitable extinguishing media: water jet
5.2	Special hazards arising from the substance or mixture: In fire can emit toxic fumes. The heat from fire increases inner pressure in containers and can cause their bursting or explosion. The exploding containers could fly up to the distance several ten meters.
5.3	Advice for fire-fighters: Wear a self-contained respirator and protective clothing. Keep containers cool with water spray until well after the fire is out. Avoid rejection of extinguishing water in the environment.

6.	ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures:
6.1.1	For non-emergency personnel: No smoking. Eliminate sources of ignition. Provide good ventilation
6.1.2	For emergency responders: No smoking. Eliminate sources of ignition. Provide good ventilation
6.2	Environmental precautions: Prevent from spreading or entering into drains, ditches or rivers.
6.3	Methods and material for containment and cleaning up: Impound and absorb on inert powdered material (sand, cement, lime). Recover in suitable container for recovery or destroying according to regional legislation.
6.4	Reference to other sections: Disposing of wastes see part 13.

7.	HANDLING AND STORAGE
7.1	Precautions for safe handling: Do not breathe spray. Protect your eyes. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 ⁰ C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Use only as directed. Unexpended product dispose as a dangerous waste.
7.2	Conditions for safe storage, including any incompatibilities: Keep at temperatures 0 ⁰ C to 30 ⁰ C in dry rooms.. Keep out of the reach of children. Keep away from sources of ignition – No smoking.
7.3	Specific end use(s): The product is applied spraying on shoe surface.

8.	EXPOSURE CONTROLS/PERSONAL PROTECTION										
8.1	Control parameters: National (Czech) occupational exposure limit values: not established										
	<table border="1"> <thead> <tr> <th>Name of substance</th> <th>CAS</th> <th>PEL/NPK-P (mg/m³)</th> <th>Notes</th> <th>Recalculation factor to ppm</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Name of substance	CAS	PEL/NPK-P (mg/m ³)	Notes	Recalculation factor to ppm	-	-	-	-	-
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Exposure limit values according to directives 2000/ 39/ EC and 2006/15/EC: not established						
Name of substance	CAS	TWA / 8 hours		STEL / short time		Notes
		mg/m ³	ppm	mg/m ³	ppm	
-	-	-	-	-	-	-
Biological limit values: not prescribed for the mixture						
8.2	Exposure controls:					
8.2.1	Appropriate engineering controls: are not necessary for nonprofessional application.					
8.2.2	Individual protection measures, such as personal protective equipment: Eyes/face, skin/hand and respiratory protection: During nonprofessional application none when used as directed .					
	Thermal hazards: None when used as directed.					
8.2.3	Environmental exposure controls: Prevent release to the environment.					

9.	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
	Appearance:	Physical state (at 20°C): system liquid-vapour in pressurized metal container Colour: colourless
	Odour:	characteristic (orange terpene)
	Odour threshold:	Not relevant for this mixture
	pH (1% water solution):	6-7
	Melting point/freezing point:	Not available
	Initial boiling point and boiling range:	Not available
	Flash point (propane-butane):	cca -80°C
	Evaporation rate:	Not available
	Flammability:	Extremely flammable
	Explosive limits (propane-butane)	upper (%v/v): 11,2; lower (%v/v): 1,4
	Vapour pressure at 20°C	cca 0,4MPa
	Vapour density – (propane-butane) (air=1):	1,79-1,94
	Density (20°C):	cca 700 kg/m ³
	Solubility:	In water: insoluble, in fats (oil): soluble
	Partition coefficient: n-octanol/water:	Not available
	Auto-ignition temperature (propane-butane):	cca 365°C
	Decomposition temperature:	Not available
	Viscosity:	Not available
	Explosive properties:	Explosibility group(propane-butane): II A
	Oxidising properties:	Not relevant for this mixture
9.2	Other information	Not available

10.	STABILITY AND REACTIVITY	
10.1	Reactivity: no known	
10.2	Chemical stability: the mixture is stable under normal ambient and anticipated storage	
10.3	Possibility of hazardous reactions: see 10.1	
10.4	Conditions to avoid: even short-time temperatures above 50°C	
10.5	Incompatible materials: strong oxidizing materials	
10.6	Hazardous decomposition products: during thermal decomposition can be produced carbon oxides and nitrogen oxides	

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11.	TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects: not determined for the mixture
	Toxicological effects of main substances: D-limonene (MSDS of supplier)
	a) acute toxicity:
	- LD ₅₀ oral, rat (mg/kg): 4400
	- LD ₅₀ dermal, rat (mg/kg): >5000
	- LC ₅₀ inhalation, rat (mg/L): NA
	b) skin irritation/corrosion : Irritating to skin
	c) serious eye damage/irritation: Not classified (Lack of data)
	d) respiratory/skin sensitisation: Aspiration hazard. May cause an allergic skin reaction
	e) repeated dose toxicity: NA
	f) carcinogenicity:
	g) mutagenicity: {based on available data does not meet the classification criteria
	h) toxicity for reproduction:
11.1.7	Information on likely routes of exposure: skin, eyes, inhalation
11.1.8	Symptoms related to the physical, chemical and toxicological characteristics:
	- skin: irritating to skin
	- eyes: temporary tingling
	- inhalation: cough, may cause drowsiness and dizziness
11.1.9	Delayed and immediate effects as well as chronic effects from short and long-term exposure: Not observed
11.1.10	Interactive effects: Not observed
11.1.12	Mixture versus substance information: At the mixture are not expected the worse effects on health than at single substances

12.	ECOLOGICAL INFORMATION
12.1	Toxicity: acute toxicity for aquatic organisms: not determined for the mixture, for the main substances: LC ₅₀ 96h, fish (mg/L): 0,7 (D-limonene) LC ₅₀ 48h, daphnia (mg/L): 0,4 (D-limonene) IC ₅₀ 72h, algae (mg/L): NA
12.2	Persistence and degradability: Persistence: No data available The potential of substances in a mixture to degrade in sewage treatment plants: No data available Degradability: inherently biodegradable
12.3	Bioaccumulative potential: high bioaccumulation factor is actually not expected
12.4	Mobility in soil: No data available
12.5	Results of PBT and vPvB assessment: based on actual information, ingredients of the mixture are not PBT/vPvB
12.6	Other adverse effects: Not observed

13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods: Suitable methods for disposal of the mixture: (code 200126 - Solvents) incineration in an incinerator or disposing in a salvage point for dangerous wastes. Suitable methods for disposal of the packaging: (code 200140 - Metals) empty packaging dispose in a salvage point for sorted wastes. Physical/chemical properties that may affect waste treatment options: the mixture is extremely flammable Sewage disposal : not allowed Special precautions for recommended waste treatment options (only for disposal of a big amount of the mixture): Regarding to the flammability of the mixture is necessary to dispose it in a well-ventilated area away from sources of ignition – No smoking. Czech national provisions relating to waste: Law nr. 185/2001 Sb., Edict nr. 381/2001 Sb.

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14.	TRANSPORT INFORMATION		
14.1	Special precautions: none		
14.2	Transport classification :		
	ADR/RID: UN No: 1950 Class: 2 Classification code: 5F Shipping name: AEROSOLS,flammable Packing group: not prescribed Limited quantity: 1 L Tunnel restriction code: D	ICAO/IATA: UN No: 1950 Class: 2.1 Labels: Flamm.Gas Shipping name: AEROSOLS,flammable Packing group: not prescribed LQ: till 30 kg	IMDG: UN No: 1950 Class: 2 Subsidiary risk: no Shipping name: AEROSOLS,flammable Marine pollutant: no Limited quantity: 1L EMS: F-D, S-U

15.	REGULATORY INFORMATION
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture: Commission Regulation nr. 1272/2008/EC Directive nr. 75/324/EEC with all amendments.
15.2	Chemical safety assessment: A chemical safety assessment has not been yet carried out for the substances in the mixture by the supplier.

16.	OTHER INFORMATION
16.1	List of relevant R-phrases and H-phrases listed in the part 3: R10 Flammable. R12 Extremely flammable. R38 Irritating to skin. R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65 Harmful: may cause lung damage if swallowed. H220 Extremely flammable gas. H226 Flammable liquid and vapour. H 304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. 317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
16.2	The information provided in this safety data sheet is supplied in good faith and is accurate at the date of its publication. The information will be updated as and when appropriate. It is not a specification of product nor does it list its uses, for which the label on the packaging should be carefully studied. In compiling the safety data sheet due account has been taken of all proper and recommended applications of the product of which we are aware and any user must consult us before applying it to any novel or unusual use. The company accepts no responsibility unless the product is used as recommended. Sources for compilation of SDS: SDS of ingredients of the mixture, ECHA website
16.3	List of used abbreviations: ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road EMS: Environmental Management System IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods IC ₅₀ : Inhibitory Concentration for 50% of test organisms LC ₅₀ : Lethal Concentration for 50% of test organisms LD ₅₀ : Lethal Dose for 50% of test organisms LQ: Limited Quantity NPK-P: Nejvyšší povolená koncentrace v pracovním ovzduší (Maximal Permissible Concentration in Working Climate) PEL: Permissible Exposure Limit RID: Regulations concerning the International Transport of Dangerous Goods by Rail SDS: Safety Data Sheet STEL: Short Time Exposure Limit TWA: Time-Weighted Average
16.4	Changes to the previous version of the SDS: no