

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product name : COMMANDANT 5 POLISH
Product code : C55

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

Application : Consumer product (SU21). Car maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : Turtle Wax Benelux B.V.
Wageningselaan 6
3903 LA Veenendaal, The Netherlands
Telephone : +31 318 54 65 65
Fax : +31 318 54 65 75
E-mail : msds@turtlewax.ltd.uk
Website : www.valma.eu

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31 318 54 65 65 (During office hours only)

EMERGENCY TELEPHONE NUMBER (in the UK and Ireland for healthcare professionals only):
(24/7)

SECTION 2 HAZARDS IDENTIFICATION

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2.1. Classification of the substance or mixture

CLP classification : Skin sensitization, category 1.
(1272/2008/EC)

Human health hazards : May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact. Contains petroleum distillates, may be harmful when ingested.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Keep out of the reach of children. Avoid contact with skin. Wear suitable gloves. If swallowed, seek medical advice immediately and show this container or label.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.
EUH066 Repeated exposure may cause skin dryness or cracking.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.



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P261 vapour Avoid breathing vapours.
P280 gloves Wear protective gloves.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an approved waste disposal plant.

Additional labelling

: Contains: 1,2-Benzisothiazol-3(2H)-one

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture.

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	REACH nr.	OEL
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304; EUH066	10 - < 20	-----	926-141-6	01-2119456620-43	#
Neuburger siliceous earth ----- -----	10 - < 20	1020665-14-8	310-127-6		#
Silicon dioxide ----- -----	10 - < 20	7631-86-9	231-545-4	01-2119379499-16	
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3; Asp. Tox. 1; STOT SE 3 H226; H304; H336; EUH066	5 - < 10		919-857-5	01-2119463258-33	#
Propane-1,2-diol ----- -----	1 - < 5	57-55-6	200-338-0	01-2119456809-23	#
(2-Methoxymethylethoxy)propanol ----- -----	1 - < 5	34590-94-8	252-104-2	01-2119450011-60	#
1-Methoxypropan-2-ol Flam. Liq. 3; STOT SE 3 H226; H336	1 - < 5	107-98-2	203-539-1	01-2119457435-35	#
Alcohols, C12-14, ethoxylated Acute Tox. 4; Eye Dam. 1; Aquatic. Acute 1 H302; H318; H400	0,1 - < 1	68439-50-9	500-213-3		
1,2-Benzisothiazol-3(2H)-one Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Aquatic Acute 1 H302; H315; H318; H317; H400	< 0,1	2634-33-5	220-120-9		



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Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Give nothing to drink. Do not rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

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

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.
- Skin contact : Repeated exposure may cause skin dryness or cracking. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin and redness.
- Eye contact : May cause stinging of eyes and redness.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

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

- Note to physicians : None known.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions



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Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with dike.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.
Recommended packaging : Keep only in the original container.
Non recommended packaging : Steel (except stainless steel). PE and PP.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		1200	-	CEFIC-HSPA
Neuburger siliceous earth		0,15	-	Respirable fraction
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		1200	-	CEFIC-HSPA
Propane-1,2-diol	GB	474	-	Total Vapour and Particulates
Propane-1,2-diol		79	117	OEL: NO
(2-Methoxymethylethoxy)propanol	GB	308	-	Skin
(2-Methoxymethylethoxy)propanol	EC	308	-	Skin
1-Methoxypropan-2-ol	GB	375	560	Skin
1-Methoxypropan-2-ol	EC	375	568	Skin

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect

Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Dermal				300 mg/kg bw/day
Propane-1,2-diol (2-Methoxymethylethoxy)propanol	Inhalation			10 mg/m3	1500 mg/m3
	Inhalation				168 mg/m3
1-Methoxypropan-2-ol	Dermal				65 mg/kg bw/day
	Inhalation				310 mg/m3
	Dermal				50,6 mg/kg bw/day
	Inhalation	553,5 mg/m3			369 mg/m3

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Dermal				300 mg/kg bw/day
	Inhalation				900 mg/m3
	Oral				300 mg/kg bw/day
Propane-1,2-diol (2-Methoxymethylethoxy)propanol	Inhalation			10 mg/m3	50 mg/m3
	Dermal				15 mg/kg bw/day
	Inhalation				37,2 mg/m3
1-Methoxypropan-2-ol	Oral				1,67 mg/kg bw/day
	Dermal				18,1 mg/kg bw/day
	Inhalation				43,9 mg/m3
	Oral				3,3 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Propane-1,2-diol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
(2-Methoxymethylethoxy)propanol	Water	19 mg/l	1,9 mg/l	
	Sediment	70,2 mg/kg	7,02 mg/kg	
	Intermittent water			190 mg/l
	STP			4168 mg/l
	Soil			2,74 mg/kg
	Oral			
1-Methoxypropan-2-ol	Water	10 mg/l	1 mg/l	
	Sediment	52,3 mg/kg	5,2 mg/kg	
	Intermittent water			100 mg/l
	STP			100 mg/l
	Soil			5,49 mg/kg
	Oral			

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
 Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.





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- Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. $\pm 0,5$ mm Indication of permeation breakthrough time: 6 hours.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance : Liquid.
- Colour : Beige
- Odour : Characteristic.
- Odour threshold : Not known.
- pH : 7,5
- Solubility in water : Emulsifiable.
- Partition coefficient (n-octanol/water) : Not applicable. Contains surfactants. The O/W system emulsifies.
- Flash point : 72 °C
- Flammability (solid, gas) : Not applicable. Liquid. See flashpoint.
- Auto ignition temperature : > 200 °C
- Boiling point/boiling range : > 100 °C
- Melting point/melting range : < 0 °C
- Explosive properties : None known. Does not contain explosives.
- Explosion limits (in air) : Not known. Lower explosion limit in air (%): Distillates (petroleum), hydrotreated light naphthenic (0,6)
Upper explosion limit in air (%): 7
- Oxidising properties : Not applicable. Does not contain oxidizing substances.
- Decomposition temperature : Not applicable.
- Viscosity (20°C) : Not known.
- Viscosity (40°C) : 5400 mm²/sec
- Vapour pressure (20°C) : Not known.
- Vapour density (20°C) : > 1 (air = 1)
- Relative density (20°C) : 1 g/ml
- Evaporation rate : < 1 (n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

- Reactivity : See sub-sections below.

10.2. Chemical stability

- Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

- Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

- Conditions to avoid : See section 7.

10.5. Incompatible materials



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Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 9,903 mg/l. Ingredients of unknown toxicity: 20 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Repeated exposure may cause skin dryness or cracking. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Ingestion

- Acute toxicity : Calculated LD50: > 3986 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. After ingestion, at vomiting, risk of aspiration in the lungs.
- Corrosion/irritation : May cause a feeling of sickness, stomachache, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Mutagenicity - estimate	Not mutagenic	Read across	
	Respiratory irritation - estimate	Non-irritant		
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	NOAEL (development) - estimate	Not teratogenic	----	----
	NOAEL (fertility) - estimate	Not reprotoxic	----	----



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Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat	
	Skin irritation	Non-irritant	OECD 404	Rabbit	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	Skin sensitisation	Not sensitizing	OECD 406	-----	
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat	
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	-----	
	LC50 (inhalation)	> 4950 mg/m3	OECD 403	Rat	
	NOAEL (inhalation) - estimate	> 2200 mg/m3	Read across	Rat	
	NOAEL (oral) - estimate	> 5500 mg/kg bw/d	Read across	Rat	
	NOAEL (oral) - estimate	> 1000 mg/kg bw/d	OECD 422	Rat	
	Genotoxicity - estimate	Not genotoxic	OECD 476	Mouse	
	NOEL (carcinogenicity) - estimate	Not carcinogenic	OECD 453	Rat	
	LD50 (dermal) - estimate	> 5000 mg/kg bw	OECD 402	Rabbit	
	LD50 (oral) - estimate	> 5000 mg/kg bw	OECD 401	Rat	
	LC50 (inhalation) - estimate	> 5000 mg/m3	OECD 403	Rat	
	Skin irritation - estimate	Non-irritant	OECD 404	Rabbit	
	Eye irritation - estimate	Non-irritant	OECD 405	Rabbit	
	Skin sensitisation - estimate	Not sensitizing	OECD 406	Guinea pig	
	1,2-Benzisothiazol-3(2H)-one	NOAEL (inhalation) - estimate	> 1160 mg/m3	OECD 413	Rat
		NOAEL (fertility) - estimate	> 1000 mg/kg.d	OECD 421	Rat
NOAEL (development) - estimate		Not teratogenic	OECD 414	Rat	
LD50 (oral)		1020 mg/kg bw		Rat	
LC50 (inhalation)		100 mg/m3		Rat	
Skin irritation		Irritant		Rabbit	
Eye irritation		Severely irritant		Rabbit	
Skin sensitisation		Sensitizing.	OECD 406	Guinea pig	
NOAEL (oral)		30 mg/kg bw/d	OECD 408	Rat	
Genotoxicity - in vitro		Genotoxic	OECD 473		
Genotoxicity - in vivo		250 mg/kg bw/d	OECD 474	Mouse	
NOAEL (development, oral)		Not teratogenic			
NOAEL (fertility, oral)	24 mg/kg bw/d		Rat		
LD50 (dermal)	4115 mg/kg bw		Rat		

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 17 mg/l. Calculated EC50 (waterflea): 17 mg/l. Contains 17 % of components with unknown hazards to the aquatic environment. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for aquatic organisms.

12.2. Persistence and degradability

Persistence – degradability : No specific information known. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.



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12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Spilled product can penetrate into the ground and get into the surface water and ground water.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID (road / railway)

Class : This product is not classified according to ADR/RID.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

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

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 830/2015 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.
: This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.3.3.1.1. of Annex I of Regulation (EC) No 1272/2008.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

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16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 830/2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DNEL	Derived no-effect level
ECETOC TRA	European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment
EU	European Union
EUSES	European Union System for the Evaluation of Substances
IBC code	Intermediate Bulk Container
LD50 LC50	Lethal Dose/Concentration for 50% of a population
NOAEL	No Observed (Adverse) Effect Level
NOEC	No observed effect concentration
OEL	Occupational exposure limit
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category
PNEC	Predicted no-effect concentration
STP	Sewage Treatment Plant
SU	Sector of Use
SVHC	Substance of very high concern
TWA/STEL	Time-Weighted Average/Short Term Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

Number format : ", " used as decimal separator.



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Date of sixth issue