

Safety Data Sheet according to (EC) No 1907/2006 as amended

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TEROSON VR 100 NANO

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

1.1. Product identifier TEROSON VR 100 NANO

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

Intended use: Cleaners for Automobile

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information Safety data sheet available on request.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Ethanol denatured 64-17-5 200-578-6 01-2119457610-43	5- < 10 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2; H319; C >= 50 %	
1-Butoxypropan-2-ol 5131-66-8 225-878-4 01-2119475527-28	1-< 5%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Flam. Liq. 3, H226		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information". Declaration of ingredients according to Detergent Regulation 648/2004/EC

contains	Perfumes preservation agents
Allergenic fragrance	Limonene
ingredients >=100 ppm: Preservatives:	Ethanol denatured

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air, consult doctor if complaint persists.

Skin contact: Immediately wash skin thoroughly with soap and water.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed No data available.

4.3. Indication of any immediate medical attention and special treatment needed See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact. Ensure that workrooms are adequately ventilated. See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. The alterations have no negative influence on the product quality and stability. Alterations are reversible after warming to room temperature. Must be stored in a room with spill collection facilities. Store in a cool place. Keep container tightly sealed. Keep container in a well ventilated place. Do not use packing made of metal. Store in a cool, well-ventilated place. Keep away from food, beverages and animal feed. Do not store together with strong bases or very alkaline substances.

7.3. Specific end use(s)

Cleaners for Automobile

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ррт	mg/m ³	~ 1	Short term exposure limit category / Remarks	Regulatory list
Ethanol	1.000	1.920	Time Weighted Average		EH40 WEL
64-17-5			(TWA):		
[ETHANOL]					

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ррт	mg/m ³	~ 1	Short term exposure limit category / Remarks	Regulatory list
Ethanol	1.000		Short Term Exposure	15 minutes	IR_OEL
64-17-5			Limit (STEL):		
[ETHANOL]					

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value		Remarks		
		1	mg/l	ppm	mg/kg	others	
Ethanol denatured	aqua		0,96 mg/l				
64-17-5	(freshwater)						
Ethanol denatured	aqua (marine		0,79 mg/l				
64-17-5	water)						
Ethanol denatured	sediment				3,6 mg/kg		
64-17-5	(freshwater)						
Ethanol denatured	Soil				0,63 mg/kg		
64-17-5							
Ethanol denatured	sediment				2,9 mg/kg		
64-17-5	(marine water)						
Ethanol denatured	oral				0,72 mg/kg		
64-17-5							
Ethanol denatured	sewage		580 mg/l				
64-17-5	treatment plant		0				
	(STP)						
Ethanol denatured	aqua		2,75 mg/l				
64-17-5	(intermittent		-				
	releases)						
1-Butoxypropan-2-ol	aqua		0,525 mg/l				
5131-66-8	(freshwater)						
1-Butoxypropan-2-ol	aqua (marine		0,0525				
5131-66-8	water)		mg/l				
1-Butoxypropan-2-ol	aqua		5,25 mg/l				
5131-66-8	(intermittent		_				
	releases)						
1-Butoxypropan-2-ol	sewage		10 mg/l				
5131-66-8	treatment plant		_				
	(STP)						
1-Butoxypropan-2-ol	sediment				2,36 mg/kg		
5131-66-8	(freshwater)						
1-Butoxypropan-2-ol	sediment				0,236		
5131-66-8	(marine water)				mg/kg		
1-Butoxypropan-2-ol	Soil				0,16 mg/kg		
5131-66-8							

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Ethanol denatured 64-17-5	Workers	Inhalation	Acute/short term exposure - local effects		1900 mg/m3	
Ethanol denatured 64-17-5	Workers	dermal	Long term exposure - systemic effects		343 mg/kg	
Ethanol denatured 64-17-5	Workers	Inhalation	Long term exposure - systemic effects		950 mg/m3	
Ethanol denatured 64-17-5	General population	Inhalation	Acute/short term exposure - local effects		950 mg/m3	
Ethanol denatured 64-17-5	General population	dermal	Long term exposure - systemic effects		206 mg/kg	
Ethanol denatured 64-17-5	General population	Inhalation	Long term exposure - systemic effects		114 mg/m3	
Ethanol denatured 64-17-5	General population	oral	Long term exposure - systemic effects		87 mg/kg	
1-Butoxypropan-2-ol 5131-66-8	Workers	dermal	Long term exposure - systemic effects		52 mg/kg	
1-Butoxypropan-2-ol 5131-66-8	Workers	inhalation	Long term exposure - systemic effects		147 mg/m3	
1-Butoxypropan-2-ol 5131-66-8	General population	dermal	Long term exposure - systemic effects		22 mg/kg	
1-Butoxypropan-2-ol 5131-66-8	General population	inhalation	Long term exposure - systemic effects		43 mg/m3	
1-Butoxypropan-2-ol 5131-66-8	General population	oral	Long term exposure - systemic effects		12,5 mg/kg	
1-Butoxypropan-2-ol 5131-66-8	Workers	dermal	Acute/short term exposure - local effects		50 %	
1-Butoxypropan-2-ol 5131-66-8	Workers	dermal	Long term exposure - local effects		50 %	
1-Butoxypropan-2-ol 5131-66-8	General population	dermal	Acute/short term exposure - local effects		50 %	
1-Butoxypropan-2-ol 5131-66-8	General population	dermal	Long term exposure - local effects		50 %	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Protective goggles Protective eye equipment should conform to EN166.

Skin protection: Suitable protective clothing Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delision on basic physical and chemical ph	-
Delivery form	liquid
Colour	blue
Odor	alcohol-like
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< -5 °C (< 23 °F)
Initial boiling point	95 °C (203 °F)
Flammability	Flammable liquid
Flammability	Not classified as supporting combustion according to the transport regulations.
Explosive limits	
lower	11,1 %(V);
Flash point	51 °C (123.8 °F); flash point, Abel-Pensky
	The product does not support combustion in any way.
Auto-ignition temperature	> 300 °C (> 572 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	10,0 - 10,6 PH-value, potentiometer
(20 °C (68 °F); Conc.: 100 % product)	
Viscosity (kinematic)	1,4 mm2/s
(40 °C (104 °F);)	
Solubility (qualitative)	Miscible
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	51 mbar
(20 °C (68 °F))	
Vapour pressure	210 mbar
(50 °C (122 °F))	
Density	0,988 - 0,998 g/cm3 density, weight
(20 °C (68 °F))	
Relative vapour density: (20 °C)	>1
Particle characteristics	Not applicable
	Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong acids. Reaction with strong oxidants.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SECTION 11: Toxicological information

General toxicological information:

To the best of our knowledge no harmful effects are to be expected if the product is handled and used properly.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value	Value	Species	Method
Ethanol denatured 64-17-5	LD50	10.470 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
1-Butoxypropan-2-ol 5131-66-8	LD50	3.300 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Ethanol denatured 64-17-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
1-Butoxypropan-2-ol 5131-66-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Ethanol denatured 64-17-5	LC50	124,7 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
1-Butoxypropan-2-ol 5131-66-8	LC50	> 651 ppm	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
1-Butoxypropan-2-ol 5131-66-8	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Ethanol denatured 64-17-5	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethanol denatured 64-17-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1-Butoxypropan-2-ol 5131-66-8	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
1-Butoxypropan-2-ol 5131-66-8	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
1-Butoxypropan-2-ol 5131-66-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1-Butoxypropan-2-ol 5131-66-8	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1-Butoxypropan-2-ol 5131-66-8	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
1-Butoxypropan-2-ol 5131-66-8	NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm	Two generation study	inhalation: vapour	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
1-Butoxypropan-2-ol 5131-66-8	NOAEL 350 mg/kg	oral: drinking water	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1-Butoxypropan-2-ol 5131-66-8	NOAEL 600 ppm	inhalation	11 d 6h/d	rat	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
1-Butoxypropan-2-ol 5131-66-8	NOAEL 880 mg/kg		13 w 5 d/w	rat	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

The product does not contain surface-active substances as defined in the EU Detergent Regulation (EC/648/2004).

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Ethanol denatured 64-17-5	LC50	> 12.000 - 16.000 mg/l	96 h	5 5	OECD Guideline 203 (Fish, Acute Toxicity Test)
1-Butoxypropan-2-ol 5131-66-8	LC50	1.732 mg/l		Brachydanio rerio (new name: Danio rerio)	not specified

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Ethanol denatured 64-17-5	EC50	5.012 mg/l	48 h	Ceriodaphnia dubia	other guideline:
1-Butoxypropan-2-ol 5131-66-8	EC50	> 700 mg/l	24 h	Daphnia magna	not specified

Chronic toxicity (aquatic invertebrates):

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Ethanol denatured	EC50	> 100 mg/l	24 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga,
64-17-5		-			Growth Inhibition Test)
1-Butoxypropan-2-ol	EC50	1.466 mg/l		Selenastrum capricornutum	OECD Guideline 201 (Alga,
5131-66-8		-		(new name: Pseudokirchneriella	Growth Inhibition Test)
				subcapitata)	

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ethanol denatured 64-17-5	IC50	> 1.000 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1-Butoxypropan-2-ol 5131-66-8	EC0	10.000 mg/l	30 min		not specified

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Ethanol denatured 64-17-5	readily biodegradable	aerobic	80 - 85 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1-Butoxypropan-2-ol 5131-66-8	readily biodegradable	aerobic	80 - 90 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Ethanol denatured	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
64-17-5	Bioaccumulative (vPvB) criteria.
1-Butoxypropan-2-ol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
5131-66-8	Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

EWC/EAK 070608

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

	SECTION 14: Transport information
14.1.	UN number or ID number
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.2.	UN proper shipping name
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.3.	Transport hazard class(es)
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.4.	Packing group
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.5.	Environmental hazards
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.6.	Special precautions for user
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
14.7.	Maritime transport in bulk according to IMO instruments
	not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021): VOC content 8,5 % (2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Great Britain):

Remarks

Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)

Not applicable

Not applicable

Not applicable

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

- of all abbreviations indicated by codes in this safety data sheet are as follows:
 - H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very
	bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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