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

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TEROSON VR 140 AE

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

1.1. Product identifier
TEROSON VR 140 AE

Contains:
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)
Fatty alcohol ethoxylate C12-14 2.5EO

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Car polish

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
Fax-no.: +44 (1442) 278071

ua-productsafety.uk@uk.henkel.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):
Flammable aerosols — Category 1
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
Serious eye damage — Category 1
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word:	Danger
Hazard statement:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H318 Causes serious eye damage.
Supplemental information	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statement:	P102 Keep out of reach of children.
Precautionary statement: Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not breathe mist/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear eye protection/face protection.
Precautionary statement: Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use CO2, dry chemical, or foam for extinction.
Precautionary statement: Storage	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

The aerosol container is under pressure. Do not expose to high temperatures.
The solvent vapors are heavier than air and may collect in high concentrations at floor level. In use, may form explosive or highly flammable vapor-air mixtures.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:
Car-care product
Base substances of preparation:
Solvent mixture
emulsifier

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Naphtha (petroleum), hydrotreated heavy Benzene < 0,1 % 64742-48-9	265-150-3 01-2119457273-39	50- < 75 %	Asp. Tox. 1 H304
Butane, n- (< 0.1 % butadiene) 106-97-8	203-448-7 01-2119474691-32	10- < 25 %	Flam. Gas 1 H220 Press. Gas
Propane 74-98-6	200-827-9 01-2119486944-21	3- < 10 %	Flam. Gas 1 H220 Press. Gas H280
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	292-477-9 01-2119489409-22	1- < 2,5 %	Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	500-213-3 01-2119487984-16	0,3- < 1 %	Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 3 H412

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to Detergent Regulation 648/2004/EC

> 30 %	aliphatic hydrocarbons
< 5 %	non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
not relevant.

4.2. Most important symptoms and effects, both acute and delayed
Repeated exposure may cause skin dryness or cracking.

EYE: Irritation, conjunctivitis.

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:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear protective equipment.
Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.
Danger of slipping on spilled product.

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
Ground/bond container and receiving equipment.
Use explosion proof electric equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid open flames and sources of ignition.

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
Ensure good ventilation/extraction.
Store in a cool place.
Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.

7.3. Specific end use(s)
Car polish

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Regulatory list
Butane 106-97-8 [BUTANE]	750	1.810	Short Term Exposure Limit (STEL):		EH40 WEL
Butane 106-97-8 [BUTANE]	600	1.450	Time Weighted Average (TWA):		EH40 WEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	aqua (freshwater)					0,007 mg/L	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	aqua (marine water)					0,0007 mg/L	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	aqua (intermittent releases)					0,024 mg/L	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	STP					830 mg/L	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	sediment (freshwater)				0,035 mg/kg		
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	soil				0,153 mg/kg		
68439-50-9	aqua (freshwater)					0,0437 mg/L	
68439-50-9	aqua (marine water)					0,0437 mg/L	
68439-50-9	aqua (intermittent releases)					0,004 mg/L	
68439-50-9	STP					10000 mg/L	
68439-50-9	sediment (freshwater)				31 mg/kg		
68439-50-9	sediment (marine water)				31 mg/kg		
68439-50-9	soil				1 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	Dermal	Long term exposure - systemic effects		4,16 mg/kg bw/day	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	Inhalation	Long term exposure - systemic effects		73,4 mg/m3	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Workers	Dermal	Long term exposure - local effects		0,09 mg/cm2	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	general population	Dermal	Long term exposure - systemic effects		2,5 mg/kg bw/day	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	general population	Inhalation	Long term exposure - systemic effects		21,73 mg/m3	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	general population	oral	Long term exposure - systemic effects		6,25 mg/kg bw/day	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	general population	Dermal	Long term exposure - local effects		0,056 mg/cm2	
68439-50-9	Workers	Dermal	Long term exposure - systemic effects		2080 mg/kg	
68439-50-9	Workers	Inhalation	Long term exposure - systemic effects		294 mg/m3	
68439-50-9	general population	Dermal	Long term exposure - systemic effects		1250 mg/kg	
68439-50-9	general population	Inhalation	Long term exposure - systemic effects		87 mg/m3	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
In case of aerosol forming ensure sufficient suction and ventilation.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter.
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):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 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:
Goggles which can be tightly sealed.

Skin protection:
Wear protective equipment.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol liquid light yellow
Odor	of petrol
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Initial boiling point	-44 °C (-47.2 °F)
Flash point	-97 °C (-142.6 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	2100 mbar
Density (20 °C (68 °F))	0,708 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible or difficult to mix
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	0,70 %(V)
upper	10,9 %(V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

Ignition temperature	236 °C (456.8 °F)

SECTION 10: Stability and reactivity

10.1. Reactivity
Strong oxidizing agents.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
Heat, flames, sparks and other sources of ignition.
Temperatures over appr. 50 °C

10.5. Incompatible materials
See section reactivity

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin irritation:
Repeated exposure may cause skin dryness or cracking.

Eye irritation:
Causes serious eye damage.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Naphtha (petroleum), hydrotreated heavy Benzene < 0,1 % 64742-48-9	LD50	> 6.000 mg/kg	oral		rat	
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	LD50	> 5.000 mg/kg	oral		rat	EU Method B.1 (Acute Toxicity (Oral))
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	LD50	> 5.000 mg/kg	oral		rat	

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	658 mg/l		4 h	rat	

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	highly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Propane 74-98-6	negative with metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

SECTION 12: Ecological information

General ecological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	Fish	96 h		
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	14,22 mg/l	Daphnia	48 h		
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	Algae	96 h		
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	NOEC	0,32 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	EC50	7,4 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0,32 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	LC50	> 1 - 10 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	<= 1 mg/l	Fish		Lepomis macrochirus	OECD 210 (fish early lite stage toxicity test)
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	EC50	> 0,1 - 1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	EC50	0,32 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	NOEC	<= 1 mg/l	chronic Daphnia		Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

12.2. Persistence and degradability

Persistence and degradability:

Degradation of surfactants

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	readily biodegradable	aerobic	84 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	readily biodegradable	aerobic	95 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	4,2				25 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Naphtha (petroleum), hydrotreated heavy Benzene < 0,1 % 64742-48-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Butane, n- (< 0.1 % butadiene) 106-97-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Propane 74-98-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl) 90622-74-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Fatty alcohol ethoxylate C12-14 2.5EO 68439-50-9	Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria

12.6. Other adverse effects

No data available.

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

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.

14 06 03 Other solvents and solvent mixtures

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packaging group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

VOC content (VOCV 814.018 VOC regulation CH) 95,7 %

VOC Paints and Varnishes (EU):
Product (sub)category: This product is not a subject of the Directive 2004/42/EC

15.2. Chemical safety assessment
A chemical safety assessment has not been carried out.

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:
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further information:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.