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

SDS No. : 473473
V008.1

TEROSON WX 990 AE500ML EGFD

Revision: 27.06.2024
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Replaces version from: 25.01.2024

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

1.1. Product identifier

TEROSON WX 990 AE500ML EGFD
UFI: T5KY-2VUY-5203-RNU5

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

Intended use:
Corrosion Protection Agents for Metals

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):

Aerosol	Category 1
H222 Extremely flammable aerosol.	
H229 Pressurized container: May burst if heated.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Sulfonic acids, petroleum, calcium salts

Signal word: Danger

Hazard statement:
H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Supplemental information EUH066 Repeated exposure may cause skin dryness or cracking.

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.
P261 Avoid breathing spray.
P280 Wear protective gloves.

Precautionary statement: Storage
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50.DEGREE.C/122.DEGREE.F.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
The solvent vapors are heavier than air and may collect in high concentrations at floor level.
The aerosol container is under pressure. Do not expose to high temperatures.

Following substances are present in a concentration ≥ 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 ≥ 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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9 927-241-2 01-2119471843-32	40- 60 %	Asp. Tox. 1, H304 Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412		
Butane, n- (< 0.1 % butadiene) 106-97-8 203-448-7 01-2119474691-32	20- 40 %	Press. Gas H280 Flam. Gas 1A, H220		
Propane 74-98-6 200-827-9 01-2119486944-21	10- 20 %	Flam. Gas 1A, H220 Press. Gas H280		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ----- 01-2119463258-33	1- < 5 %	Asp. Tox. 1, H304 Flam. Liq. 3, H226 STOT SE 3, H336		
Sulfonic acids, petroleum, calcium salts 61789-86-4 263-093-9 01-2119488992-18	1- < 3 %	Skin Sens. 1B, H317		
Isobutane 75-28-5 200-857-2 01-2119485395-27	1- < 3 %	Flam. Gas 1A, H220 Press. Gas Liquef. Gas, H280		

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".

The hazard classification of this product is based solely on the mixture present within the aerosol, excluding the propellant gases. The information provided in Section 3 is based on the combination of the mixture and propellant gases.

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin contact:
IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

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

Ingestion:
not relevant.

4.2. Most important symptoms and effects, both acute and delayed
SKIN: Rash, Urticaria.

Vapors may cause drowsiness and dizziness.

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:
Carbon dioxide, foam, powder

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 self-contained breathing apparatus.
Wear protective equipment.

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.
Inform authorities in the event of product spillage to water courses or sewage systems.

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

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.
Storage at 5 to 25°C is recommended.

7.3. Specific end use(s)
Corrosion Protection Agents for Metals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Butane 106-97-8 [Butane]	600	1.450	Time Weighted Average (TWA):		EH40 WEL
Butane 106-97-8 [Butane]	750	1.810	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Paraffin waxes and Hydrocarbon waxes 8002-74-2 [Paraffin wax, fume]		6	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Paraffin waxes and Hydrocarbon waxes 8002-74-2 [Paraffin wax, fume]		2	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]		4	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Calcium carbonate 471-34-1 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Butane 106-97-8 [N-BUTANE]	1.000		Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Paraffin waxes and Hydrocarbon waxes 8002-74-2 [PARAFFIN WAX]		2	Time Weighted Average (TWA):		IR_OEL
Paraffin waxes and Hydrocarbon waxes 8002-74-2 [PARAFFIN WAX]		6	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Isobutane 75-28-5 [ISOBUTANE]	1.000		Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Calcium carbonate 471-34-1 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Calcium carbonate 471-34-1		10	Time Weighted Average (TWA):		IR_OEL

[DUSTS NON-SPECIFIC]					
Calcium carbonate 471-34-1 [Calcium carbonate]		10	Time Weighted Average (TWA):		IR_OEL
Calcium carbonate 471-34-1 [Calcium carbonate]		4	Time Weighted Average (TWA):		IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Sulfonic acids, petroleum, calcium salts 61789-86-4	aqua (freshwater)		1,00 mg/l				
Sulfonic acids, petroleum, calcium salts 61789-86-4	aqua (marine water)		1,0 mg/l				
Sulfonic acids, petroleum, calcium salts 61789-86-4	sewage treatment plant (STP)		1000,00 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	Workers	inhalation	Long term exposure - systemic effects		871 mg/m3	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	Workers	dermal	Long term exposure - systemic effects		77 mg/kg	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	General population	inhalation	Long term exposure - systemic effects		185 mg/m3	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	General population	dermal	Long term exposure - systemic effects		46 mg/kg	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	General population	oral	Long term exposure - systemic effects		46 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	Workers	Inhalation	Long term exposure - systemic effects		871 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	Workers	dermal	Long term exposure - systemic effects		77 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	Inhalation	Long term exposure - systemic effects		185 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	dermal	Long term exposure - systemic effects		46 mg/kg	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	General population	oral	Long term exposure - systemic effects		46 mg/kg	

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 (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): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 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.
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

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), or equivalent.
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

Delivery form	aerosol
Colour	white
Odor	Of hydrocarbons
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	< -50 °C (< -58 °F)
Initial boiling point	132 °C (269.6 °F)
Flammability	flammable
Explosive limits	
lower	1,01 %(V); Upper explosion limit not applicable for safe processing practices.
Flash point	36 °C (96.8 °F)
Auto-ignition temperature	> 238 °C (> 460.4 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic) (40 °C (104 °F);)	36 mm2/s
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (20 °C (68 °F))	960 Pa
Vapour pressure (50 °C (122 °F))	4900 Pa
Density (20 °C (68 °F))	0,678 g/cm3 Dichte Pyknometer; HT-Methode; Henkel Iberica NS-06
Relative vapour density: (20 °C)	1,07

Particle characteristics	Not applicable Product is a liquid

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Aerosols:	Classified as Aerosol category 1 because it contains more than 1 % (by mass) flammable components or has a heat of combustion of at least 20 kJ/g and is not submitted to the flammability classification procedures

SECTION 10: Stability and reactivity

10.1. Reactivity
Oxidizers.

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

General toxicological information:
An allergic reaction cannot be excluded after repeated skin contact.

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 type	Value	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Sulfonic acids, petroleum, calcium salts 61789-86-4	LD50	> 5.000 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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Sulfonic acids, petroleum, calcium salts 61789-86-4	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative 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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	LC50	> 4,951 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	274200 ppm	gas	4 h	rat	not specified
Propane 74-98-6	LC50	> 800000 ppm	gas	15 min	rat	not specified
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LC50	> 5,6 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LC50	> 9,3 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Isobutane 75-28-5	LC50	260200 ppm	gas	4 h	mouse	not specified

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	mildly irritating		rabbit	Weight of evidence
Sulfonic acids, petroleum, calcium salts 61789-86-4	not irritating	4 h	rabbit	EPA OPPTS 870.2500 (Acute Dermal Irritation)

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sulfonic acids, petroleum, calcium salts 61789-86-4	not irritating		rabbit	EPA OPPTS 870.2400 (Acute Eye Irritation)

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Sulfonic acids, petroleum, calcium salts 61789-86-4	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propane 74-98-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Sulfonic acids, petroleum, calcium salts 61789-86-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobutane 75-28-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	inhalation: vapour		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Propane 74-98-6	negative			Drosophila melanogaster	not specified
Propane 74-98-6	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isobutane 75-28-5	negative	oral: feed		Drosophila melanogaster	not specified
Isobutane	negative	inhalation: gas		rat	OECD Guideline 474

75-28-5					(Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

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

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	not carcinogenic	inhalation: vapour	6 hours plus T90 (12 minutes) 5 days per week for 105 weeks	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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
Butane, n- (< 0.1 % butadiene) 106-97-8	NOAEL P 21,4 mg/l NOAEL F1 21,4 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Propane 74-98-6	NOAEL P 21,6 mg/l NOAEL F1 21,6 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane 75-28-5	NOAEL P 21,4 mg/l NOAEL F1 21,4 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

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

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	May cause drowsiness or dizziness.			

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	NOAEL >= 1.000 mg/kg	oral: gavage	7 days/week	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reprod./Develop. Tox. Screening Test)
Butane, n- (< 0.1 % butadiene) 106-97-8		inhalation: gas	28 d 6 h/d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Propane 74-98-6		inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	NOAEL 1.000 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Isobutane 75-28-5	NOAEL 9000 ppm	inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	0,9 mm2/s	40 °C	calculated	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	0 mm2/s	40 °C	not specified	

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains, soil or bodies of water.

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 CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	LL50	> 10 - < 30 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	96 h		QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	LL50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	LL50	> 1.000 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)

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 CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	EL50	> 22 - < 46 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	14,22 mg/l	48 h		QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	EL50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	EC50	> 1.000 mg/l	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)

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 CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	EL50	> 1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	NOELR	< 1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	96 h		QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	NOELR	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	NOELR	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	EL50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

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
Sulfonic acids, petroleum, calcium salts 61789-86-4	EC50	> 10.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 64742-48-9	readily biodegradable	aerobic	89 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
Propane 74-98-6	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	readily biodegradable	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Sulfonic acids, petroleum, calcium salts 61789-86-4	not readily biodegradable.	aerobic	8 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Isobutane 75-28-5	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

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

Hazardous substances CAS-No.	LogPow	Temperature	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	2,31	20 °C	other (measured)
Sulfonic acids, petroleum, calcium salts 61789-86-4	22,12	25 °C	QSAR (Quantitative Structure Activity Relationship)
Isobutane 75-28-5	2,88	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

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

Hazardous substances CAS-No.	PBT / vPvB
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics 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.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics -----	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sulfonic acids, petroleum, calcium salts 61789-86-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isobutane 75-28-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. 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.
080409

SECTION 14: Transport information

14.1. UN number or ID 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. Packing 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. 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):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	90 %

VOC Paints and Varnishes (EU):

Regulatory Basis:	Directive 2004/42/EC
Product (sub)category:	B(e) Special finishes
Phase I (from 1.1.2007):	840 g/l
max. VOC content:	610 g/l

15.2. Chemical safety assessment

A chemical safety assessment has 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.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

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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