Safety Data Sheet
according to WHS Regulations

Printing date 07.11.2026 Version number 4 Revision: 07.11.2026

*
1 Identification

· **Product identifier**

· **Trade name: Lanadol AVANT x-treme**

· **Article number:** 2037
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture**
Highly effective brushing agent with extra strong fat dissolving power for extremely soiled, less sensitive textiles. Can also be used as a detergent booster.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
· **Manufacturer**
Chemische Fabrik Kreussler & Co. GmbH
Rheingaustraße 87-93, D-65203 Wiesbaden
Tel. +49 (0) 611 9271-0
· **Supplier**
Spencer Systems
2/142 Riverstone Parade
Riverstone NSW 2765
Australia

· **Further information obtainable from:**
Spencer Systems
Daniel Hays
2/142 Riverstone Pde
Riverstone, NSW, 2765
Australia
· **Emergency telephone number:**
+61 (0) 2 9679 1244 (9am – 5pm AEDT)
Poisons information centre – 13 11 26 from anywhere in Australia

2 Hazard(s) Identification

· **Classification of the substance or mixture**
Eye Dam. 1 H318 Causes serious eye damage.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05

· **Signal word** Danger
· **Hazard statements**
Causes serious eye damage.
· **Precautionary statements**
Wear protective gloves / eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
· **Other hazards**
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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Trade name: Lanadol AVANT x-treme

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· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
157627-86-6	Alcohols C13-C15 branched and linear,ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412	5-15%
69011-36-5	alcohols C13 branched, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302	5-15%
112-34-5	2-(2-butoxyethoxy)ethanol Serious eye damage/irritation – Category 2A, H319	5-15%
69011-36-5	Alcohols, C13 branched, ethoxylated Eye Dam. 1, H318; Aquatic Chronic 3, H412	5-15%
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 2, H411; Acute Tox. 4, H332	≤0.1%

· **Ingredients according to detergent regulation EC 648/2004**	
non-ionic surfactants	≥15 - <30%
perfumes, preservation agents (pyridine-2-thiol 1-oxide, sodium salt, BENZISOTHIAZOLINONE)	<5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Rinse with warm water.
If skin irritation continues, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Protective equipment:** Use normal protective clothing.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Ensure adequate ventilation.
· **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:** No special measures required.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
None.
Store under lock and key and with access restricted to technical experts or their assistants only.
· **Storage class:** 12
· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.
· **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**		
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	long term/systemic effects	1.3 mg/kg (Consumers)
Dermal	long term/systemic effects	10 mg/kg (Consumers)
		20 mg/kg (Workers)
Inhalative	long term/systemic effects	5 mg/m³ (Consumers)
	long term/local effects	5 mg/m³ (Consumers)
		5 mg/m³ (Workers)
	Acute/local effects	7.5 mg/m³ (Consumers)
		15 mg/m³ (Workers)

· **PNECs**	
112-34-5 2-(2-butoxyethoxy)ethanol	
Aqua	0.1 mg/l (Marine water)
	1 mg/l (Freshwater)
Boden	0.4 mg/kg dw (Soil)
	0.4 mg/kg dw (Marine water)
	4 mg/kg dw (Freshwater)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.

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· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong material gloves
· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **General Information**	
· **Appearance:**	
· **Form:**	Liquid
· **Colour:**	Yellow
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	10.8
· **Change in condition**	
· **Melting point/freezing point:**	Undetermined.
· **Initial boiling point and boiling range:**	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
· **water:**	Fully miscible.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
· **Dynamic:**	Not determined.
· **Kinematic at 20 °C:**	18 s (DIN 53211/4)
· **Solvent content:**	
· **Solids content:**	0.0 %
· **Other information**	No further relevant information available.

10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD-50	5,386-7,110 mg/kg (rat)

157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated		
Oral	LD-50	1,150 mg/kg (rat)
69011-36-5 alcohols C13 branched, ethoxylated		
Oral	LD-50	1,000-2,000 mg/kg (rat)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD-50	3,384 mg/kg (rat)
Dermal	LD-50	2,700 mg/kg (rabbit)
69011-36-5 Alcohols, C13 branched, ethoxylated		
Oral	LD-50	>5,000 mg/kg (rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
157627-86-6 Alcohols C13-C15 branched and linear,ethoxylated	
EC-10	>1,000 mg/L (Belebtschlamm)
EC-50 48h	1-10 mg/l (Daphnia magna) (Literaturangabe)
EC-50 72h	1-10 mg/l (Scenedesmus subspicatus) (Literaturangabe)
LC-50 96h	1-10 mg/l (Brachydanio rerio)
69011-36-5 alcohols C13 branched, ethoxylated	
LC-50 96h	1-10 mg/l (Leuciscus idus)
112-34-5 2-(2-butoxyethoxy)ethanol	
EC-10 (17 h)	1,170 mg/l (Pseudomonas putida)
EC-50 24h	2,850 mg/l (Daphnia magna)
LC-50 96h	1,300 mg/l (Lepomis macrochirus)
NOEC (96h)	>100 mg/l (Desmodesmus subspicatus)
69011-36-5 Alcohols, C13 branched, ethoxylated	
EC-10 (17 h)	>2,500 mg/l (Belebtschlamm) (DIN 38412 Teil 8)
EC-50 48h	1-10 mg/l (Daphnia magna)
LC-50 96h	1-10 mg/l (Leuciscus idus) (DIN 38412 Teil 15)
3811-73-2 pyridine-2-thiol 1-oxide, sodium salt	
EC-50 48h	0.022 mg/l (Daphnia magna) (OECD 202)
EC-50 96h	0.00767 mg/l (Oncorhynchus mykiss) (OECD 203)
EC-50 72h	0.46 mg/l (Selenastrum capricomutum) (OECD 201)
NOEC (72 h)	0.08 mg/l (Selenastrum capricomutum) (OECD 201)

· **Persistence and degradability** No further relevant information available.
· **Other information:** The product is easily biodegradable.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Do not allow product to reach ground water, water course or sewage system.
The product may not be released into the environment without control.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** Dispose of in accordance with Local, State, and Federal Regulations.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	Void
· **UN proper shipping name**	
· **ADG, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **ADG, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **ADG, IMDG, IATA**	Void
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

* 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

112-34-5	2-(2-butoxyethoxy)ethanol	S5
1310-73-2	sodium hydroxide	S5, S6, S10
106-24-1	geraniol	S6
470-82-6	eucalyptol	S6
5392-40-5	Citral	S5
97-53-0	Eugenol	S5, S6

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**



GHS05

· **Signal word** Danger
· **Hazard statements**
Causes serious eye damage.
· **Precautionary statements**
Wear protective gloves / eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The information of Items 4 through 8 and 10 through 12 partially refers not to the use and the proper application of the product (see Directions for Use/Product Information) but to the release of larger quantities in the case of accidents and irregularities.
The information exclusively describes the safety requirements of the product(s) and is based on the present state of our experience.
Non-ionic tensides can have varying characteristics and classifications despite same CAS-No.

· **Relevant phrases**
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
· **Contact:**
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**