

* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Lanadol Aktiv
- **Article number:** 2202
- **Application of the substance / the preparation**
Special cleaning and fiber protecting agent having a color-stabilizing effect for use in the LANADOL wet cleaning process.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Chemische Fabrik Kreussler & Co. GmbH
Postfach 120454
D-65082 Wiesbaden
- **Information department:**
Abteilung TQM
Herr Vogel
+49 (0) 611 9271-175
Kurt.Vogel@kreussler.com
- **Emergency telephone number:** +49 (0) 611 9271-0

* 2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

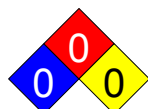
- **Dangerous components:**

	perfumes	Xi R38-43; N R51/53	≤1 %
26027-37-2	Oleicacid Monoethanolamid, ethoxylated	Xi R38	5.0-15%
69011-36-5	Alcohols, C13 branched, ethoxylated	Xi R41	1.0-5.0%
112-34-5	2-(2-butoxyethoxy)ethanol	Xi R36	1.0-5.0%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Rinse with warm water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

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.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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** No special measures required.
- **Information about protection against explosions and fires:** 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.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Components with limit values that require monitoring at the workplace:	
112-34-5 2-(2-butoxyethoxy)ethanol (1.0-5.0%)	
TLV	50 mg/m ³ , NIC-7 ppm
	Inhalable fraction and vapor

- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
PVC or PE gloves
Recommended thickness of the material: ≥ 0.4 mm
- **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information	
· Appearance:	
Form:	Fluid
Color:	Yellow
· Odor:	Characteristic
· pH-value at 20°C (68 °F):	7.1
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212 °F)
· Flash point:	> 100°C (> 212 °F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure at 20°C (68 °F):	23 hPa (17 mm Hg)
· Density at 20°C (68 °F):	1.02 g/cm ³ (8.512 lbs/gal)
· Solubility in / Miscibility with Water:	Fully miscible.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C (68 °F):	12 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 The product is not subject to classification according to internally approved calculation methods for preparations:
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** 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.
 The product may not be released into the environment without control.
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Dispose of in accordance with local, state, and federal Regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

* 14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void
· Label	-
· ADN/R Class:	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void

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· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Danger code (Kemler):	-
· EMS Number:	-
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

· Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

26027-37-2	Oleicacid Monoethanolamid, ethoxylated
69011-36-5	Alcohols, C13 branched, ethoxylated
112-34-5	2-(2-butoxyethoxy)ethanol
29911-28-2	Dipropylenglykolbutylether
22042-96-2	Diethylentriamin(pentamethylenphosphonsäure), Natriumsalz
2425-77-6	2-Hexyldecan-1-ol
9001-62-1	Lipase, triacylglycerol
9000-90-2	Amylase, alpha-
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine
2634-33-5	1,2-benzisothiazol-3(2H)-one
2682-20-4	2-methyl-2H-isothiazol-3-one
7732-18-5	water, distilled, conductivity or of similar purity

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canadien Substances Listings:**· **Canadien Domestic Substances List (DSL):**

26027-37-2 Oleicacid Monoethanolamid, ethoxylated

112-34-5 2-(2-butoxyethoxy)ethanol

29911-28-2 Dipropylenglykolbutylether

22042-96-2 Diethylentriamin(pentamethylenphosphonsäure), Natriumsalz

29297-55-0 colour protection

2425-77-6 2-Hexyldecan-1-ol

9001-62-1 Lipase, triacylglycerol

9000-90-2 Amylase, alpha-

2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2634-33-5 1,2-benzisothiazol-3(2H)-one

2682-20-4 2-methyl-2H-isothiazol-3-one

· **Canadien Ingredient disclosure list (limit 0.1%)**

26027-37-2 Oleicacid Monoethanolamid, ethoxylated

112-34-5 2-(2-butoxyethoxy)ethanol

29911-28-2 Dipropylenglykolbutylether

22042-96-2 Diethylentriamin(pentamethylenphosphonsäure), Natriumsalz

29297-55-0 colour protection

2425-77-6 2-Hexyldecan-1-ol

9001-62-1 Lipase, triacylglycerol

9000-90-2 Amylase, alpha-

2372-82-9 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

2634-33-5 1,2-benzisothiazol-3(2H)-one

2682-20-4 2-methyl-2H-isothiazol-3-one

7732-18-5 water, distilled, conductivity or of similar purity

· **Canadien Ingredient disclosure list (limit 1%)**

112-34-5 2-(2-butoxyethoxy)ethanol

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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.

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- **Department issuing MSDS:**
Abteilung TQM
Herr Vogel
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 - **Contact:** Herr Vogel
 - *** Data compared to the previous version altered.**
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