

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

**· 1.1 Product identifier**

· **Trade name:** Leunapon-F 1216/2

· **Chemical Identification:** alcohols, C12-16, ethoxylated

· **CAS Number:**

68551-12-2

· **NLP Number:**

500-213-3

· **Registration number** 01-2119487984-16-0013

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

**· Sector of Use**

SU0 Other

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

**· Product category**

PC3 Air care products

PC31 Polishes and wax blends

PC35 Washing and cleaning products (including solvent based products)

PC39 Cosmetics, personal care products

**· Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

PROC17 Lubrication at high energy conditions in metal working operations

PROC19 Manual activities involving hand contact

**· Environmental release category**

ERC2 Formulation into mixture

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC5 Use at industrial site leading to inclusion into/onto article

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

**· Application of the substance / the mixture** Surface active agent

**· 1.3 Details of the supplier of the safety data sheet**

**· Manufacturer/Supplier:**

Vantage Leuna GmbH

Am Haupttor, Gebäude 7302

D-06237 Leuna

GERMANY

+49 (0)3461 434554

leuna@vantagegrp.com

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- **Further information obtainable from:** Abteilung Produktsicherheit / lt@leuna-tenside.de
- **1.4 Emergency telephone number:**  
outside USA: 0049 700 24112112 (LET)  
inside USA: 011 49 700 24112112 (LET)

<b>* SECTION 2: Hazards identification</b>	
· <b>2.1 Classification of the substance or mixture</b>	
· <b>Classification according to Regulation (EC) No 1272/2008</b>	
 GHS09 environment	
Aquatic Acute 1 H400 Very toxic to aquatic life.	
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.	
· <b>2.2 Label elements</b>	
· <b>Labelling according to Regulation (EC) No 1272/2008</b>	
The substance is classified and labelled according to the CLP regulation.	
· <b>Hazard pictograms</b>	
 GHS09	
· <b>Signal word</b> Warning	
· <b>Hazard statements</b>	
H410 Very toxic to aquatic life with long lasting effects.	
· <b>Precautionary statements</b>	
P273 Avoid release to the environment.	
P391 Collect spillage.	
· <b>2.3 Other hazards</b>	
· <b>Results of PBT and vPvB assessment</b>	
· <b>PBT:</b> Not applicable.	
· <b>vPvB:</b> Not applicable.	

<b>* SECTION 3: Composition/information on ingredients</b>	
· <b>3.1 Chemical characterisation: Substances</b>	
· <b>CAS No. Description</b>	
68551-12-2 alcohols, C12-16, ethoxylated	
· <b>Identification number(s)</b>	
· <b>NLP Number:</b> 500-213-3	

<b>* SECTION 4: First aid measures</b>	
· <b>4.1 Description of first aid measures</b>	
· <b>After inhalation:</b> Supply fresh air; consult doctor in case of complaints.	
· <b>After skin contact:</b>	
Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.	
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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Do not induce vomiting; call for medical help immediately.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**\* SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**\* SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to penetrate the ground/soil.  
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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**\* SECTION 7: Handling and storage**

**· 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**· Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

**· 7.2 Conditions for safe storage, including any incompatibilities**

**· Storage:**

**· Requirements to be met by storerooms and receptacles:** Store in a cool location.

**· Information about storage in one common storage facility:** Store away from foodstuffs.

**· Further information about storage conditions:**

Store in dry conditions.

Prior taking portions all the lot must be homogenised.

With longer storage under room temperature fogging and separation can occur. That can be eliminated again through homogenisation (to agitate, to warm up, to pump).

Protect from heat and direct sunlight.

**· Information on storage stability**

In enclosed original container product keeps stable for at least 2 years.

**· 7.3 Specific end use(s)** No further relevant information available.

**\* SECTION 8: Exposure controls/personal protection**

**· 8.1 Control parameters**

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

**· Ingredients with limit values that require monitoring at the workplace:** Not required.

**· DNELs**

**68551-12-2 alcohols, C12-16, ethoxylated**

Oral	systemic effect - long term exposure	25 mg/kg bw/day (General Population)
Dermal	systemic effect - long term exposure	1,250 mg/kg bw/day (General Population)
Inhalative	local effect - long term exposure	2,080 mg/kg bw/day (worker)
	systemic effect - long term exposure	294 mg/m <sup>3</sup> (worker)
		87 mg/m <sup>3</sup> (General Population)

**· PNECs**

**68551-12-2 alcohols, C12-16, ethoxylated**

Freshwater	0.074 mg/L (rat)
Marine water	0.007 mg/L
sewage treatments plant	10,000 mg/L
Sediment (freshwater)	66.67 mg/kg sediment
Sediment (marine water)	6.66 mg/kg sediment
Soil	1 mg/kg soil

**· Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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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.*

*Short term filter device:*

*Filter A/P2*

**· Protection of hands:**

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**· Material of gloves**

*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.*

*Nitrile rubber, NBR*

**· Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**· Eye protection: Safety glasses**

**· Body protection: Protective work clothing**

**SECTION 9: Physical and chemical properties**

**· 9.1 Information on basic physical and chemical properties**

**· General Information**

**· Appearance:**

**Form:** Liquid

**Colour:** Cloudy

**· Odour:**

**· Odour threshold:** Not determined.

**· pH-value (100 g/l) at 25 °C:** 5 - 8 (DIN EN 1262)

**· Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

**Solidification point:** ca. 8 °C (DIN ISO 3016)

**· Flash point:** 163 °C

**· Flammability (solid, gas):** Not applicable.

**· Decomposition temperature:** Not determined.

**· Auto-ignition temperature:** Not determined.

**· Explosive properties:** Product does not present an explosion hazard.

**· Explosion limits:**

**Lower:** Not applicable.

**Upper:** Not applicable.

**· Oxidising properties** Not determined.

**· Vapour pressure:** Not determined.

**· Density at 30 °C:** ca. 0.89 g/cm³ (DIN 51757)

**· Relative density** Not determined.

**· Vapour density** Not determined.

**· Evaporation rate** Not determined.

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· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b>	Not determined.
<b>Kinematic at 30 °C:</b>	ca. 19 mm <sup>2</sup> /s (DIN 51562)
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
- 68551-12-2 alcohols, C12-16, ethoxylated
- Oral LD50 >2,000 mg/kg (rat) (OECD 401)
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:**
- 68551-12-2 alcohols, C12-16, ethoxylated
- LC50/96 h 1.2 mg/L (danio rerio) (OECD 203)

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EC50/48h (static)	0.53 mg/L (daphnia magna) (EG-Guideline 92/69/EWG)
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· **12.2 Persistence and degradability**

No further relevant information available.  
95 % (28 d, OECD 301 F)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

**\* SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

HP14	Ecotoxic
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· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**\* SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

· **ADR**

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alcohols, C12-16, ethoxylated)

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alcohols, C12-16, ethoxylated), MARINE POLLUTANT

· **IATA**

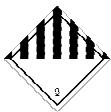
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alcohols, C12-16, ethoxylated)

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<b>· 14.3 Transport hazard class(es)</b>	
· ADR	
	 
· Class	9 (M6) Miscellaneous dangerous substances and articles.
· Label	9
<b>· IMDG, IATA</b>	
	 
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
<b>· 14.4 Packing group</b>	
· ADR, IMDG, IATA	III
<b>· 14.5 Environmental hazards:</b>	
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
<b>· 14.6 Special precautions for user</b>	
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
<b>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
	Not applicable.
<b>· Transport/Additional information:</b>	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	(-)
· IMDG	
· Limited quantities (LQ)	5L

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<b>· Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>· UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOLS, C12-16, ETHOXYLATED), 9, III

<b>* SECTION 15: Regulatory information</b>
<b>· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<b>· Directive 2012/18/EU</b>
<b>· Named dangerous substances - ANNEX I</b> Substance is not listed.
<b>· Seveso category E1</b> Hazardous to the Aquatic Environment
<b>· Qualifying quantity (tonnes) for the application of lower-tier requirements</b> 100 t
<b>· Qualifying quantity (tonnes) for the application of upper-tier requirements</b> 200 t
<b>· REGULATION (EC) No 1907/2006 ANNEX XVII</b> Conditions of restriction: 3
<b>· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
Substance is not listed.
<b>· REGULATION (EU) 2019/1148</b>
<b>· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
Substance is not listed.
<b>· Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
Substance is not listed.
<b>· Regulation (EC) No 273/2004 on drug precursors</b>
Substance is not listed.
<b>· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>
Substance is not listed.
<b>· 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.

<b>* SECTION 16: Other information</b>
<i>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.</i>
<b>· Replaces Version dated:</b> 9.11.2016
<b>· Department issuing SDS:</b> Product safety department
<b>· Contact:</b> Product safety department
<b>· Abbreviations and acronyms:</b>
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial 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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**· Sources**

CESIO

ECHA - european chemicals agency

**· \* Data compared to the previous version altered.**

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