Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) amended by Commission Regulation (EU) 2020/878

Trade name :	VERNILUX Aqua ENAMAL Paint solvent-free Art. No. 5134-5136, 5141, 5142		
Revision date :	15.07.2025	**Version (Revision) :**	3.0.0 (2.0.3)
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

VERNILUX Aqua ENAMAL Paint solvent-free
Art. No. 5134-5136, 5141, 5142

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

Relevant identified uses

Application of the substance / the mixture:	Water-based coating material.
Recommended restrictions of use:	If used properly - none

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

BIOFA Naturprodukte W.Hahn GmbH

Street : Dobelstr.22

Postal code/city : D-73087 Bad Boll

Telephone : +49 (0) 7164-9405-0

Telefax : +49 (0) 7164-9405-94

Information contact :

E-mail address for information to the safety data sheet: biofa@info.de

1.4 Emergency telephone number

During office time 7:00 to 15:30: +49 (0) 7164-9405-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

No dangerous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No dangerous substance or mixture

Precautionary statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P501	Dispose of contents/container in accordance with local/national regulations

Supplemental Hazard information (EU)

EUH210	Safety data sheet available on request
EUH211	Warning! Hazardous respirable droplets maybe formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture does not contain any components at concentrations of 0.1% or higher that are either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Environmental information: The substance/mixture does not contain any components that exhibit endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or more.

Toxicological information: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

None

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

After ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO2) Water spray Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard. " In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

5.3 Advice for firefighters

Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).
Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations.
Do not allow to enter into surface water or drains.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Hints on joint storage

Keep away from: Alkali (lye). Acid Oxidizing agent

Storage class : 12

Storage class (TRGS 510) : 12

Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place. Protect against Heat. Frost Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

ENAMAL Paint for interior and exterior use

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Information on the occupational exposure limit value according to the RCP method in accordance with TRGS 900 (D)
Limit value type
Calculated RCP workplace limit value (country of origin)
Limit value (D): not relevant

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation or good general extraction.

Personal protection equipment

Safety data sheet of raw material suppliers or taken by accredited Laboratories or have been dertermined internally

Eye/face protection

Suitable eye protection Eye glasses with side protection

Skin protection

After cleaning apply high-fat content skin care cream.

Hand protection

Tested protective gloves must be worn DIN EN 374
Breakthrough times and swelling properties of the material must be taken into consideration.

By long-term hand contact Suitable material : Butyl caoutchouc (butyl rubber)
Thickness of the glove material 0,7 mm
Breakthrough time (maximum wearing time) > 480 min.

By short-term hand contact Suitable material : NBR (Nitrile rubber)
Thickness of the glove material 0,4 mm
Breakthrough time (maximum wearing time) > 120 min.

Body protection

Personnel should wear impermeable protective work clothing.
Recommended material Natural fibres (e.g. cotton)

Respiratory protection

Usually no personal respirative protection necessary.
Respiratory protection necessary at: spray application
Suitable respiratory protection apparatus
Combination filtering device (EN 14387) A 2 P 2

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Depending on colour

Odour

chalky

Odour threshold

Not determined

Safety relevant basis data

Melting point/melting range :			No data available		
Initial boiling point and boiling range :	(1013 hPa)	>	100	°C	
Decomposition temperature :			No data available		
Flash point :			not applicable		DIN EN ISO 1523
Ignition temperature :			not applicable		
Lower explosion limit :			not applicable		
Upper explosion limit :			not applicable		
Vapour pressure :	(50 °C)		No data available		
Density :	(20 °C)		1,2 - 1,35	g/cm³	DIN 53217
Solvent separation test :	(20 °C)		not applicable		
Water solubility :	(20 °C)		completely mixable		
pH :			7,0 – 7,5		
Flow time :	(20 °C)	>	200	s	DIN-cup 4 mm
Viscosity :	(20 °C)		3000 - 4000	mPa.s	Brookfield
Solid content :			50 - 55	Wt %	
Solvent content :		approx.	1-1,2	Wt %	
Maximum VOC content (EC) :		approx.	1-1,2	Wt %	
Maximum VOC content (Switzerland) :			0	Wt %	

Self-ignition: Product is not self-igniting.
danger of explosion by solvents: Not applicable
Relative density: Not determined
Vapour density: Not determined
Evaporation rate: Not determined
N-octanol-water partition coefficient: Not determined

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability

Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials
Alkali (lye). Acid Oxidizing agent.

10.6 Hazardous decomposition products
By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Irritant and corrosive effects
Primary irritation to the skin
The product is: Not an irritant.
Irritation to eyes
The product is: Not an irritant.
Irritation to respiratory tract
The product is: Not an irritant.

Sensitisation
not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)
Not classified according to the available information.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
Not classified according to the available information.
Germ cell mutagenicity
Not classified according to the available information.
Reproductive toxicity
Not classified according to the available information.
Specific target organ toxicity at single exposure
Not classified according to the available information.
Aspiration toxicity
Not classified according to the available information.

11.2 Information on other hazards
Product:
Assessment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 12: Ecological information

12.1 Toxicity
No information available.

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:
Assessment: This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Other adverse effects

Product:
Assessment: The substance/mixture does not contain any constituents that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7 Additional ecotoxicological information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter into surface water or drains.

Product/Packaging disposal

Waste and empty containers must be classified in accordance with the Waste Catalogue Ordinance.
Dispose of liquid material residues at the collection point for old paints/lacquers, dispose of dried material residues as construction and demolition waste or as municipal or household waste.
Waste should not be disposed of via waste water.

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 12

Waste name

Waste paint and varnish other than those mentioned in 08 01 11*.

Waste treatment options

Appropriate disposal / Package

Packing which cannot be properly cleaned must be disposed of.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

14.8 Additional information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

REACH restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles and articles (Annex XVII)	: none
REACH - List of substances qualifying for authorisation especially Substances of very high concern (Article 59)	: This product is a mixture which not a substance of very high concern (SVHC) ontains greater than or equal to 0.1%, therefore no permitted end uses need to be defined and no chemical safety assessments need to be carried out.
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: no(er)
Seveso III Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. dangerous substances	: not applicable

Other regulations

Observe employment restrictions according to the Act on the Protection of Mothers at Work, in Training and in Studies (Maternity Protection Act - MuSchG).

Major Accidents Ordinance

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

Ordinance on Industrial Safety and Health (BetrSichV).

Not a flammable liquid according to BetrSichV.

Volatile organic compounds

Directive 2004/42/EC (31st BImSchV/Chem VOC-FarbV)

< 1,2 %

< 12 g/l

VOC product category : Paints and varnishes

VOC subcategory of product : Varnishes and woodstains for building decoration (indoor and outdoor)

VOC limit level II (g/L), ready to use : 130

Maximum VOC content of the ready-to-use product (g/L): max. 12

Additional information

GISCODE for coatings: BSW10

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

16.1 Indication of changes

1.4 Emergency telephone number • 02. Labelling according to Regulation (EC) No. 1272/2008 (CLP) • 16. Other information

16.2 Abbreviations and acronyms

Acute Tox.	Akute Toxizität
ADR	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road – Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße
Aquatic Acute	Akute aquatische Toxizität
Aquatic Chronic	Chronische aquatische Toxizität
Asp. Tox.	Aspirationsgefahr
AVV	Abfallverzeichnis-Verordnung
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BImSchV	Verordnung zur Durchführung des Bundesimmissionsschutzgesetzes
CAS	Chemical Abstracts Service – Gesellschaft für die Vergabe von CAS-Nummern
CLP	Classification, Labelling and Packaging (Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen)
CMR	carcinogen, mutagen, reproduktionstoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)
DIN	Deutsches Institut für Normung
EAK	Europäischer Abfallkatalog
EC50	Mittlere effektive Konzentration
EN	Europäische Norm
EU	Europäische Union
EUH	Europäische Gefahrenhinweise
Eye Dam.	Schwere Augenschädigung
Eye Irrit.	Augenreizend
Flam. Liq.	Entzündbare Flüssigkeit
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien)
hPa	Hectopascal
IATA-DGR	International Air Transport Association –Dangerous Goods Regulations (Gefahrgutvorschriften der Internationalen Flug-Transport-Vereinigung)
ICAO-TI	International Civil Aviation Organization-Technical Instructions (Technische Anleitungen für den sicheren Transport von Gefahrgütern in der Luft der zivilen Luftfahrtgesellschaft)
IC50	Halbmaximale Hemmstoffkonzentration
IMDG	International Maritime Code for Dangerous Goods (Internationaler Code für Gefahrgüter auf See
ISO	Internation Standards Organization (Internationale Organisation für Normung)
LC50	Lethal concentration, 50 percent (Lethale Konzentration für 50% einer Versuchspopulation)
LD50	Lethal dose, 50 percent (Lethale Dosis für 50% einer Versuchspopulation)
LQ	Limited Quantities (begrenzte Mengen)
MAK	Maximale Arbeitsplatzkonzentrationswerte gesundheitsgefährdender Stoffe
Met. Corr.	Korrosiv gegenüber Metallen
NOEC	No Observed Effect Concentration (Tierexperimentell festgelegte höchste Konzentration, bei der keine Wirkung – schädigender Effekt – mehr nachweisbar ist)
PBT	Persistent, Bioaccumulative and Toxic (persistent, bioakkumulierbar und toxisch)
RCP	Reciprocal Calculation-based Procedure (Methode zur Berechnung von Arbeitsplatzgrenzwerten von Kohlenwasserstoffgemischen

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
RID	Reglement concernant le transport International ferroviaire de marchandises Dangereuses (Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)
Skin Corr.	Hautätzende Wirkung
Skin Irrit.	Hautreizende Wirkung
Skin Sens.	Sensibilisierung durch Hautkontakt
STOT RE	Spezifische Zielorgan-Toxizität – wiederholte Exposition
STOT SE	Spezifische Zielorgan-Toxizität – bei einmaliger Exposition
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations (Vereinte Nationen)
VbF	Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)
VOC	Volatile Organic Compounds (flüchtige organische Verbindungen)
vPvB	very Persistent and very Bioaccumulative (sehr persistent und sehr bioakkumulierbar)
WGK	Wassergefährdungsklasse (German Water Hazard Class)

See also overview tables at www.euphrac.com or http://abk.esdscom.eu

16.3 Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version.
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] Transport regulations according ADR, RID, IMDG, IATA in the current version.
Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been dertermined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification and evaluation was carried out by the calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets maybe formed when sprayed. Do not breathe spray or mist.

16.6 Training advice

None

16.7 Additional information

No exposure scenario according to REACH Regulation (EC) No 1907/2006 is required for this product.
Communication of uses according to REACH Article 31 (1)(a) - registered substances/mixtures meeting the criteria for classification according to Regulation (EC) No 1272/2008 or 1999/45/EC - is not required.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.