

Safety Data Sheet

VFD EXP - 9192

Safety Data Sheet dated 2/3/2022, version 1.0 - Provisional

Printing date: 20/9/2022

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

1.1. Product identifier

Trade name: VFD EXP - 9192
MSDS code: YY3283
Chemical description: Product based on biopolymers

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

Recommended use:

Industrial uses

1.3. Details of the supplier of the safety data sheet

Supplier:
Lamberti S.p.A. - Via Piave, 18 - 21041 Albizzate (VA) - Italia
Phone: +39 0331 715111 Fax: +39 0331 775577

Competent person responsible for the safety data sheet:

msds@lamberti.com

1.4. Emergency telephone number

Lamberti S.p.A. - Phone: +39 0331 715 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

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SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:
None.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. Seek immediately medical advice.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Not known.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

Not known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

Not known.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

- 6.3. Methods and material for containment and cleaning up
Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequate ventilation in working area.
Packaging suggested:
Paper bags
Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1

Product belongs to category:	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
None		

- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
No occupational exposure limit available
DNEL
N.D.
PNEC
N.D.
- 8.2. Exposure controls
Eye protection:
Use close fitting safety goggles. (ref. EN 166, EN 140, EN175).
Protection for skin:

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No special precaution must be adopted for normal use.

Protection for hands:

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. In case of prolonged contact, the use of protective gloves is recommended , providing comprehensive protection to chemicals (refer to EN 374).

Respiratory protection:

Use adequate protective respiratory equipment. (ref. EN 136, EN 140, EN 141, EN 143, EN 149, EN 405).

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Solid	--	Powder
Colour:	Yellow	--	--
Odour:	Slight	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.D.	--	--
Flammability:	N.D.	--	--
Lower and upper explosion limit:	N.D.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.D.	--	--
Decomposition temperature:	N.D.	--	--
pH:	~ 4.5 (5 g/l)	--	--
Kinematic viscosity:	N.D.	--	--
Solubility in water:	Soluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient n-octanol/water (log value):	N.D.	--	--
Vapour pressure:	N.D.	--	--
Density and/or relative density:	~ 600 g/ml	--	Bulk density
Relative vapour density:	N.D.	--	--

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Particle characteristics:			
Particle size:	N.D.	--	--
9.2. Other information No other relevant information			
SECTION 10: Stability and reactivity 10.1. Reactivity As organic product, dust may form explosive mixture if dispersed in air. Keep away from ignition sources and adopt usual precautions to avoid dust explosion. Stable under normal conditions 10.2. Chemical stability Stable under normal conditions 10.3. Possibility of hazardous reactions Stable under normal conditions 10.4. Conditions to avoid Stable under normal conditions. 10.5. Incompatible materials Not known 10.6. Hazardous decomposition products Not known			
SECTION 11: Toxicological information 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product: a) acute toxicity Not classified The classification criteria are not met. LD50 Oral Rat > 2000 mg/kg - source: Based on components. b) skin corrosion/irritation Not classified The classification criteria are not met. Irritation Skin : repeated and prolonged contacts may cause slight irritation. c) serious eye damage/irritation Not classified The classification criteria are not met. Irritation Eye : repeated and prolonged contacts may cause slight irritation. d) respiratory or skin sensitisation Not classified The classification criteria are not met. e) germ cell mutagenicity Not classified The classification criteria are not met. f) carcinogenicity			

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Not classified
The classification criteria are not met.

g) reproductive toxicity
Not classified
The classification criteria are not met.

h) STOT-single exposure
Not classified
The classification criteria are not met.

i) STOT-repeated exposure
Not classified
The classification criteria are not met.

j) aspiration hazard
Not classified
The classification criteria are not met.

Toxicological information of the main substances found in the product:
N.D.

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity
Not classified for environmental hazards
The classification criteria are not met.

a) Aquatic acute toxicity:
EC50/LC50 Aquatic species > 100 mg/l - Notes: Based on components.

12.2. Persistence and degradability
Biodegradability: Data not available.

12.3. Bioaccumulative potential
Bioaccumulation: Data not available

12.4. Mobility in soil
Mobility in soil: Data not available

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
If possible recover the product in accordance with local regulation.

SECTION 14: Transport information

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- 14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH).
For non-EU Countries, the Material Safety Data Sheet it is prepared following the main principles of Globally Harmonized System of Classification and Labelling of Chemicals (GHS) which are adopted worldwide.

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15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture/substance.

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases;

NIOSH - Registry of toxic effects of chemical substances (1983) - Occupational Health Guidelines for Chemical Hazards (1995) - Pocket Guide to Chemical Hazards (on line)

OECD - eChemPortal: The Global Portal to Information on Chemical Substances;

CESIO - Human Health and Environmental classification of AE, AES, AS and various surfactant families.

SAX'S Dangerous Properties of Industrial Materials. VIII (1993)

M. Sittig - Handbook of Toxic and Hazardous Chemicals and Carcinogens - III Ed.

E.R. Plunkett - Handbook of Industrial Toxicology - III Ed. 1991

Samson Chem. Pub.-Chemical Safety Sheet working safely with hazardous chemical.

ACGIH - "TLVs and BEIs" - latest edition

The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force.

This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue.

Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EC50:	Effective concentration, for 50 percent of test population
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"

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	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not Applicable
N.D.:	No Data available
PNEC:	Predicted No Effect Concentration.
REACH:	Registration Evaluation and Authorization of Chemicals.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
SVHC:	Candidate List of Substances of Very High Concerns.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.