Import and distribution: Farmadria D.O.O.
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Corn Protein Hydrolyzed
Creation date: 26.09.2024, Revision: 03.10.2024, Version: 1.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name
Corn Protein Hydrolyzed

Product code
[AL00183]

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

Relevant identified uses
Raw material for cosmetic products.

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet

Supplier
Farmadria DOO
Heroja Pinkija 44
26300 Vršac, Serbia
+381695565029
info@avenalab.com

1.4 Emergency Telephone Number

Emergency
111

Supplier
+381695565029

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
According to the regulation, the chemical is not classified as hazardous.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
EUH210 Safety data sheet available on request.
P102 Keep out of reach of children.
P501 Dispose of contents/container in accordance with national regulation.

2.3 Other hazards

PBT/vPvB
No information.

Endocrine disrupting properties
The product does not contain substances with the potential for endocrine disorders.

Additional information
No information.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Water	7732-18-5 231-791-2 -	≥75	/	/	/
Hydrolyzed Corn Protein	100209-41-4 - -	≤25	/	/	/
Benzyl Alcohol	100-51-6 202-859-9 603-057-00-5	>1	Acute Tox. 4; H302 Acute Tox. 4; H332	/	/
3-o-Ethyl Ascorbic Acid	86404-04-8 617-849-3 -	0.1-5	/	/	/
(+)-Arabinogalactan	9036-66-2 232-910-0 -	0.1-3	/	/	/
Pentylene Glycol	5343-92-0 226-285-3 -	1-5	Asp. Tox. 1; H304 Eye Dam. 1; H318	/	/
Sodium benzoate	532-32-1 208-534-8 -	0.1-1	Eye Irrit. 2; H319	/	/
Potassium Sorbate	24634-61-5 680-685-6 -	0.1-0.5	/	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

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Following ingestion
Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact
Contact with skin may cause irritation (redness, itching).

Following eye contact
Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion
May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media
Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions
In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters
Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information
No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment
No information.

Precautionary measures
Ensure adequate ventilation.

Emergency procedures
No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

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Use personal protective equipment.

6.2 Environmental precautions
Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment
Stem the spill if this does not pose risks.

For cleaning up
Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information
No information.

6.4 Reference to other sections
See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire
Ensure adequate ventilation.

Measures to prevent aerosol and dust generation
Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment
Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures
No information.

Advice on general occupational hygiene
Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials
Store only in original container.

Requirements for storage rooms and vessels
Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature
No information.

Storage class
No information.

Further information on storage conditions
No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
Benzyl Alcohol	Worker	dermal	long term systemic effects	repeated	9.5 mg/kg
Benzyl Alcohol	Worker	inhalation	long term systemic effects	repeated	90 mg/m³
Sodium benzoate	Worker	inhalation	long term systemic effects	/	mg/m³
Sodium benzoate	Worker	dermal	long term local effects	/	mg/cm²
Sodium benzoate	Worker	inhalation	long term local effects	/	mg/m³
Sodium benzoate	Worker	dermal	long term systemic effects	/	mg/kg
Sodium benzoate	Consumer	dermal	long term systemic effects	/	mg/kg
Sodium benzoate	Consumer	inhalation	long term systemic effects	/	mg/m³
Sodium benzoate	Consumer	oral	long term systemic effects	/	mg/kg
Sodium benzoate	Consumer	dermal	long term local effects	/	mg/cm²
Sodium benzoate	Consumer	inhalation	long term local effects	/	mg/m³

PNEC values

For product

No information.

For components

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Name	Exposure route	Remark	Value
Benzyl Alcohol	fresh water	/	1 mg/L
Benzyl Alcohol	marine water	/	0.1 mg/L

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. 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. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

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Physical state	liquid
Shape	No information.
Colour	Clear to hazy.
Odour	characteristic
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density / weight	No information.
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes
No information.

Other safety characteristics
No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No information.

10.2 Chemical stability
Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions
No information.

10.4 Conditions to avoid
No information.

10.5 Incompatible materials
No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
Water	oral	LD_{50}	rat	/	> 90 ml/kg	/	/
Benzyl Alcohol	oral	LD_{50}	rat	/	1230 mg/kg	GESTIS	/
Benzyl Alcohol	inhalation (vapours)	ATE	/	/	11 mg/l	/	/
Benzyl Alcohol	inhalation (dusts/mists)	ATE	/	/	1.5 mg/l	/	/
Pentylene Glycol	oral	LD_{50}	rat	/	> 5000 mg/kg	/	/
Pentylene Glycol	dermal	LD_{50}	rat	/	> 2000 mg/kg	/	/
Pentylene Glycol	inhalation	LC_{50}	rat	4 h	> 7.015 mg/l	/	/
Sodium benzoate	oral	LD_{50}	rat	/	2100 mg/kg	/	/
Potassium Sorbate	oral	LD_{50}	rat	/	> 10000 mg/kg	/	/
Potassium Sorbate	inhalation	LC_{50}	rat	4 h	> 5.15 mg/l	OECD 403	/
Potassium Sorbate	dermal	LD_{50}	rat	/	> 2000 mg/kg	OECD 402	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Benzyl Alcohol	human	48 h	Mild irritating.	/	16 mg
Benzyl Alcohol	rabbit	24 h	Mild irritating.	/	10 mg
Pentylene Glycol	rabbit	/	negative	OECD 404	/
Potassium Sorbate	rabbit	/	No irritant effect.	OECD 404	/

Additional information

The product is not classified as irritating to skin and eyes.

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(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Benzyl Alcohol	/	/	/	Irritating.	OECD 405	/
Pentylene Glycol	/	rabbit	/	Irreversible damage.	OECD 405	/
Potassium Sorbate	/	rabbit	/	Irritating.	OECD 405	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Benzyl Alcohol	dermal	/	/	May cause sensitisation by skin contact.	/	/
Benzyl Alcohol	dermal	human	/	May cause sensitisation by skin contact.	repeated patch test	/
Pentylene Glycol	/	guinea pig	/	It does not cause sensitization on laboratory animals.	/	/
Potassium Sorbate	dermal	guinea pig	/	Non sensitising.	/	/

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
Benzyl Alcohol	/	Bacteria	/	Negative.	/	Ames test
Pentylene Glycol	in-vitro mutagenicity	/	/	Negative.	OECD 476	/
Pentylene Glycol	in-vitro mutagenicity	/	/	Negative.	OECD 473	/
Potassium Sorbate	in-vitro mutagenicity	Bacteria	/	Negative with metabolic activation, negative without metabolic activation.	Directive 67/548/EEC, Annex V, B.13.	Ames test
Potassium Sorbate	in-vitro mutagenicity	/	/	Partially positive result	EU Method B.10	/
Potassium Sorbate	in-vivo mutagenicity	Mammals	/	Negative.	/	Micronucleus assay

(f) Carcinogenicity

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For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
Benzyl Alcohol	/	/	/	/	/	Animal testing did not show any carcinogenic effects.	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
Benzyl Alcohol	/	/	/	/	/	Animal testing did not show any effects on fertility.	/	/
Potassium Sorbate	Teratogenicity	NOAEL	rat	/	340 mg/kg bw/day	No effect	/	oral
Potassium Sorbate	Effects on fertility	NOAEL	rat	/	3000 mg/kg bw/day	No effect	OECD 416	oral

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
Benzyl Alcohol	oral	-	rat	/	/	/	400 mg/kg	/	/	/
Potassium Sorbate	oral	NOAEL	rat	/	/	/	750 mg/kg	/	/	/

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	organism	Method	Remark
Benzyl Alcohol	LC_{50}	10 mg/L	96 h	fish	*Lepomis macrochirus*	/	/
Benzyl Alcohol	EC_{50}	658 mg/L	30 min	bacteria	*Photobacterium phosphoreum*	/	/
Benzyl Alcohol	EC_{50}	400 mg/L	24 h	crustacea	*Daphnia magna*	/	/
Benzyl Alcohol	IC_5	640 mg/L	96 h	algae	*Scenedesmus quadricauda*	/	/
Pentylene Glycol	EC_{50}	> 500 mg/L	48 h	crustacea	*Daphnia magna*	/	/
Pentylene Glycol	EC_{50}	9335 mg/L	72 h	algae	*Desmodesmus subspicatus*	DIN 38412	/
Pentylene Glycol	EC_{50}	> 10000 mg/L	17 h	microorganisms	*Pseudomonas putida*	/	/
Pentylene Glycol	EC10	> 1000 mg/L	0 h	microorganisms	*Pseudomonas putida*	/	/
Sodium benzoate	LC_{50}	> 100 mg/L	96 h	fish	/	/	/
Sodium benzoate	EC_{50}	650 mg/L	48 h	Invertebrates	*Daphnia magna*	/	/
Sodium benzoate	EC_{50}	> 30.5 mg/L	72 h	algae	/	/	/
Potassium Sorbate	LC_{50}	> 1000 mg/L	96 h	fish	*Oncorhynchus mykiss*	OECD 203	/
Potassium Sorbate	EC_{50}	982 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
Potassium Sorbate	EC_{50}	> 100 mg/L	3 h	bacteria	Activated sludge	OECD 209 OECD 209	/

Chronic (long-term) toxicity

For components

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Name	Type	Value	Exposure time	Species	organism	Method	Remark
Benzyl Alcohol	NOEC	5.1 mg/l	14 days	fish	*Oryzias latipes*	/	/
Benzyl Alcohol	NOEC	51 mg/l	21 days	aquatic invertebrate	*Daphnia magna*	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
Benzyl Alcohol	biodegradability	/	/	readily biodegradable	/	according to OECD criteria
Pentylene Glycol	biodegradability	73 %	28 days	readily biodegradable	OECD 301 E	/
Sodium benzoate	aerobic	/	/	biodegradable	/	/
Potassium Sorbate	-	/	/	readily biodegradable	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
Benzyl Alcohol	1.05	/	/	/	/
Pentylene Glycol	0.06	25	/	/	/
Sodium benzoate	-2.27	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	Value	Duration	Evaluation	Method	Remark
Benzyl Alcohol	organism	/	1.1	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
Benzyl Alcohol	100	/	/	/	/	/	/

Surface tension

For components

Name	Value	Temperature °C	Concentration	Method	Remark
Benzyl Alcohol	0.039 N/m	20	/	/	/

Adsorption/Desorption

For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
Benzyl Alcohol	Soil	/	15.66	/	/	Koc

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

For components

Benzyl Alcohol

The substance is readily biodegradable. This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

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ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions
Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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Product name: Corn Protein Hydrolyzed

Creation date: 26.09.2024, Revision: 03.10.2024, Version: 1.1

SECTION 16: OTHER INFORMATION

Indication of changes

1.2. Relevant identified uses of the substance or mixture and uses advised against 2.1. Classification of the substance or mixture 2.2. Label elements 2.3. Other hazards 3.1. Substances 3.2. Mixtures 4.1. Description of first aid measures 4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed 5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters 6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up 6.4. Reference to other sections 7.1. Precautions for safe handling 7.2. Conditions for safe storage, including any incompatibilities 7.3. Specific end use(s) 8.1. Control parameters 8.2. Exposure controls 9.1. Information on basic physical and chemical properties 9.2. Other information 10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.2. Information on other hazards 12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties 12.7. Other adverse effects 12.8. Additional information 13.1. Waste treatment methods 14. Transport information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical Safety Assessment

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient

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SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.