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Information about Compilation of Safety Data Sheets

Product: Protein Detector HRP Microwell Kit, Anti-Rabbit
Company: SeraCare Life Sciences
Article number: 5110-0010

All components of the aforementioned kit had been classified according to Regulation (EC) No. 1907/2006 (REACH) and to Regulation (EC) No. 1272/2008 (GHS/CLP).

For the kit components ABTS Substrate Solution (article number 50-64-00) and Peroxidase Stop Solution (article number 50-85-00), Safety Data Sheets had been compiled (enclosures).
For the remaining kit components Coating Buffer Concentrate (article number 50-84-01), BSA Diluent/Blocking Solution Concentrate (article number 50-61-01), Wash Solution Concentrate (article number 50-63-01), 50 % Glycerol (article number 50-83-00), Peroxidase Solution B (article number 50-65-00), and the Peroxidase-Labeled Antibody HRP Anti-Rabbit IgG [H+L] (article number 04-15-06), no Safety Data Sheets are required after classifications according to the Regulation (EC) No. 1907/2006 (REACH) and the Regulation (EC) No. 1272/2008 (GHS/CLP).

When handling the kit components, the general and specific safety precautions for laboratories and the corresponding directives have to be followed.

Date of issue: May 2017

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.05.2017 Version number 2 Revision: 12.05.2017

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

1.1 Product identifier

Trade name: ABTS Peroxidase Substrate Solution A for article 5110-0010

Article number: 50-64-00 (15)
Registration number
This product is a mixture (see chapter 3). Registration number(s) is/are not available for this substance/these substances as the substance(s) or its/their use are exempted from registration according to Article 2 REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require registration or the registration is envisaged for a later registration deadline.

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

Relevant identified uses:
RUO (Research Use Only).
Uses advised against:
For in vitro diagnosis.
Sector of Use SU24 Scientific research and development
Product category PC21 Laboratory chemicals
Process category PROC15 Use as laboratory reagent
Application of the substance / the mixture Immunochemical reagent for detection / auxiliary reagent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor:
Manufacturer:
SeraCare Life Sciences (KPL)
910 Clopper Road
Gaithersburgh, Maryland 20878, USA
Distributor:
medac GmbH
Theaterstrasse 6
22880 Wedel, Germany phone: +49 4103 8006-0
Informing department:
Product Safety
productsafety@medac.de

1.4 Emergency telephone number:

Giftinformationszentrum-Nord, Phone: ++49 551 19 240 (service in German and English, 24 hours permanently accessible).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
This substance is not classified as hazardous according to European Community legislation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
Product is not subject to labelling according to Regulation (EC) No. 1272/2008 (GHS/CLP).

Hazard pictograms Void.
Signal word Void.

Hazard-determining components of labelling: Void.

Precautionary statements Void.

Additional information:
Restricted to professional users.
Safety data sheet available on request.

2.3 Other hazards Void.
Results of PBT and vPvB assessment
PBT: Not applicable.

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vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Chemical characterisatiion: substances Not applicable. Product is a mixture.

3.2 Chemical characterisation: Mixtures
Description: Water based solution

Dangerous components:			
CAS: 77-92-9 EINECS: 201-069-1 RTECS: GE 7350000	citric acid	Eye Irrit. 2, H319	0.1-<1%

SVHC Not applicable.
Additional information For the wording of the listed H- and R-phrases please refer to Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
After inhalation
Supply fresh air.
Seek medical treatment in case of complaints.
After skin contact
Remove contaminated clothes.
Clean contaminated areas with water and soap.
If symptoms develop, consult doctor.
After eye contact
Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of onset of symptoms consult doctor.
After swallowing
Rinse out mouth.
Let drink water (2 glasses maximum).
In case of disorders consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further televant information available.
Information for doctor
Show Safety Data Sheet.
Treatment according to symptoms.
Danger 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 Product itself does not burn. Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents For this mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
In case of burning of a larger amount:
Stay in the danger area only with self-contained breathing apparatus.
Prevent skin and eye contact by keeping a safe distance or by wearing suitable protective clothing.
Additional information
Collect contaminated fire fighting water separately. It must not enter drains.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes.

6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Afterwards clean with water and cleansing agent.
Dispose of contaminated material as waste according to Section 13.

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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special precautions necessary if handled correctly.
Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities No further relevant information available.
Storage
Requirements to be met by storerooms and containers: Store at +2 °C to +8 °C.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: The indications are valid for the whole package.
Storage class 10-13 (VC).

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see Section 7.

8.1 Control parameters
Components with critical values that require monitoring at the workplace: Not applicable.
DNELs Not applicable.
PNECs Not applicable.

CAS No.	Designation of material	%	Type	Value	Unit

Additional Occupational Exposure Limit Values for possible hazards during processing: Not applicable.
Additional information: The official lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
See Section 7.
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Avoid contact with the eyes and skin.
Remove contaminated clothing immediately.
Do not eat or drink while working.
Keep away from food and beverages.
Wash hands during breaks and at the end of the work.
Breathing equipment: Not required.
Protection of hands: Disposable medical gloves (AQL 1.5).
Material of gloves
Nitrile rubber, NBR

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Natural rubber, NR
Thickness 0.11 mm.
The product quality has to comply with DIN EN 455.
Penetration time of glove material Not applicable.
For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Product has not been designed for permanent contact.
For the permanent contact gloves made of the following materials are suitable:
Product has not been designed for permanent contact.
For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Product has not been designed for permanent contact.
As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber, NBR
Natural rubber, NR
Thickness: 0.11 mm.
Eye protection: Safety glasses (standard EN 166).
Body protection: Protective work clothing.
Limitation and supervision of exposure into the environment Do not empty into drains.
Risk management measures Void.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	liquid
Colour:	Colourless
Smell:	No information available.
Odour threshold:	No information available.
Important information on protection of health and environment, and on safety.	No further relevant information available.
pH-value:	No information available.
Change in condition	
Melting point/freezing point:	No information available.
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable.
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not available.
Decomposition temperature:	No information available.
Self-inflammability:	Not self-inflammable.
Explosive properties:	Not explosive.
Critical values for explosion:	
Lower:	Not applicable.
Upper:	Not applicable.
Oxidising properties	Not applicable.
Steam pressure:	No information available.
Density	No information available.
Relative density	No ionformation available.
Vapour density	No information available.
Evaporation rate	No information available.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient: n-octanol/water:	No information available.
Viscosity:	
dynamic:	No information available.
kinematic:	No information available.

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Trade name: ABTS Peroxidase Substrate Solution A for article 5110-0010

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Solvent content:	
Organic solvents:	0.0 %
Water:	90.0 %
Solids content:	0.1 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Product is under normal ambient conditions (room temperature) chemically stable.
Thernak decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: For these concentrations no further relevant information available.

10.6 Hazardous decomposition products:
For this/these concentartion/s no dangerous products of decomposition known.
Additional information: No further relevant information available.

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 that are relevant for classification: Quantitative data about toxicity of this product are not available.
Specific symptoms in biological assay: No further relevant information available.
Primary irritant effect:
Skin corrosion/irritation In this concentration no irritant effects known.
Serious eye damage/irritation In this concentration no irritant effects known.
after swallowing: In this concentration no irritant effects known.
after inhalation: In this concentrations no irritant effects known.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Other information (about experimental toxicology): No further relevant information available.
Subacute to chronic toxicity: No further relevant information available.
Additional toxicological information: No further relevant information available.
Toxicokinetics, metabolism and distribution No relevant information available.
Acute effects (acute toxicity, irritation and corrosivity) No acute toxicity information available for this product.
Sensitisation No sensitising effect known.
Repeated dose toxicity No further relevant information available.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No relevant information available.
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: No further relevant information available.

12.2 Persistence and degradability According to OECD criteria readily biodegradable.
Other information: No further relevant information available.

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Behaviour in environmental systems:
Components: Accumulation in organisms is not to be expected.

12.3 Bioaccumulative potential Bioaccumulation is not to be expected.

12.4 Mobility in soil No data available.
Additional ecological information:
General notes:
At present there are no ecotoxicological assessments.
Void.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects No relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product residues have to disposed of according to the Waste Framework Directive as well as national and regional regulations in each the latest versions.

Uncleaned packagings:
Recommendation: Uncleaned packagings have to be disposed of in the same manner as the product residues.

SECTION 14: Transport information

14.1 UN-Number **ADR, ADN, IMDG, IATA**	-
14.2 UN proper shipping name **ADR, ADN, IMDG, IATA**	-
14.3 Transport hazard class(es) **ADR, ADN, IMDG, IATA** **Class**	-
14.4 Packing group **ADR, IMDG, IATA**	-
14.5 Environmental hazards: **Marine pollutant:**	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	No dangerous good according to the above specifications.
UN "Model Regulation":	-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 See Section 2.

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National regulations

Information about limitation of use:
Take note of the directive on the protection of young people at work in the latest version.
Take note of the directive on the safety and health at work for pregnant and breast feeding mothers and workers of childbearing age in the latest version.

Water hazard class: Void.

Other regulations, limitations and prohibitive regulations Void.
Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

All information and recommodations are believed to be correct as of the date of this Safety Data Sheet but shall not be taken to be all inclusive and shall be used only as a guide. All chemicals and preparations may present unknown hazards and should be used with caution. medac shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases
H319 Causes serious eye irritation.

Department issuing data specification sheet: Product Safety
Contact: productsafety@medac.de
Replaces version from: 18.07.2014
Reason for alteration: Change of contact address.
Abbreviations and acronyms:
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 européen sur le transport 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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified 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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

1.1 Product identifier

Trade name: Peroxidase Stop Solution / 5% SDS for article 5110-0010

Article number: 50-85-00 (15)
Registration number
This product is a mixture (see chapter 3). Registration number(s) is/are not available for this substance/these substances as the substance(s) or its/their use are exempted from registration according to Article 2 REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require registration or the registration is envisaged for a later registration deadline.

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

Relevant identified uses:
RUO (Research Use Only).
Uses advised against:
For in vitro diagnosis.
Sector of Use SU24 Scientific research and development
Product category PC21 Laboratory chemicals
Process category PROC15 Use as laboratory reagent
Application of the substance / the mixture Immunochemical reagent for detection / auxiliary reagent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor:
Manufacturer:
SeraCare Life Sciences (KPL)
910 Clopper Road
Gaithersburgh, Maryland 20878, USA
Distributor:
medac GmbH
Theaterstrasse 6
22880 Wedel, Germany phone: +49 4103 8006-0
Informing department:
Product Safety
productsafety@medac.de

1.4 Emergency telephone number:

Giftinformationszentrum-Nord, Phone: ++49 551 19 240 (service in German and English, 24 hours permanently accessible).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
This substance is not classified as hazardous according to European Community legislation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
Product is not subject to labelling according to Regulation (EC) No. 1272/2008 (GHS/CLP).
Signal word Void.

Hazard-determining components of labelling: Void.

Precautionary statements Void.

Additional information:
Restricted to professional users.
Safety data sheet available on request.

2.3 Other hazards Void.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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Trade name: Peroxidase Stop Solution / 5% SDS for article 5110-0010

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SECTION 3: Composition/information on ingredients

3.1. Chemical characterisatiion: substances Not applicable. Product is a mixture.

3.2 Chemical characterisation: Mixtures
Description: Water based solution

Dangerous components:		
CAS: 151-21-3 EINECS: 205-788-1 RTECS: WT 1050000	sodium dodecyl sulphate Flam. Sol. 1, H228 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	3-5%

SVHC Not applicable.
Additional information For the wording of the listed H- and R-phrases please refer to Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
After inhalation
Supply fresh air.
Seek medical treatment in case of complaints.
After skin contact
Remove contaminated clothes.
Clean contaminated areas with water and soap.
If symptoms develop, consult doctor.
After eye contact
Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
In case of onset of symptoms consult doctor.
After swallowing
Rinse out mouth.
Let drink water (2 glasses maximum).
In case of disorders consult doctor.
Information for doctor
Show Safety Data Sheet.
Treatment according to symptoms.
Danger 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 Product itself does not burn. Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents For this mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
In case of burning of a larger amount:
Stay in the danger area only with self-contained breathing apparatus.
Prevent skin and eye contact by keeping a safe distance or by wearing suitable protective clothing.
Additional information
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes.

6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Afterwards clean with water and cleansing agent.
Dispose of contaminated material as waste according to Section 13.

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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special precautions necessary if handled correctly.
Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities No further relevant information available.
Storage
Requirements to be met by storerooms and containers: Store at +2 °C to +8 °C.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: The indications are valid for the whole package.
Storage class 10-13 (VC).

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see Section 7.

8.1 Control parameters
Components with critical values that require monitoring at the workplace: Not applicable.
DNELs Not applicable.
PNECs Not applicable.
CAS No. Designation of material % Type Value Unit Not applicable according to German regulations.
Additional Occupational Exposure Limit Values for possible hazards during processing: Not applicable.
Additional information: The official lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
See Section 7.
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Avoid contact with the eyes and skin.
Remove contaminated clothing immediately.
Do not eat or drink while working.
Keep away from food and beverages.
Wash hands during breaks and at the end of the work.
Breathing equipment: Not required.
Protection of hands: Disposable medical gloves (AQL 1.5).
Material of gloves
Nitrile rubber, NBR
Natural rubber, NR
Thickness 0.11 mm.
The product quality has to comply with DIN EN 455.

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Penetration time of glove material Not applicable.
For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Product has not been designed for permanent contact.
For the permanent contact gloves made of the following materials are suitable:
Product has not been designed for permanent contact.
For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Product has not been designed for permanent contact.
As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber, NBR
Natural rubber, NR
Thickness: 0.11 mm.
Eye protection: Safety glasses (standard EN 166).
Body protection: Protective work clothing.
Limitation and supervision of exposure into the environment Do not empty into drains.
Risk management measures Void.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	liquid
Colour:	Colourless
Smell:	No information available.
Odour threshold:	No information available.
Important information on protection of health and environment, and on safety.	No further relevant information available.
pH-value:	No information available.
Change in condition	
Melting point/freezing point:	No information available.
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable.
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not available.
Decomposition temperature:	No information available.
Self-inflammability:	Not self-inflammable.
Explosive properties:	Not explosive.
Critical values for explosion:	
Lower:	Not applicable.
Upper:	Not applicable.
Oxidising properties	Not applicable.
Steam pressure:	No information available.
Density	No information available.
Relative density	No ionformation available.
Vapour density	No information available.
Evaporation rate	No information available.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient: n-octanol/water:	No information available.
Viscosity:	
dynamic:	No information available.
kinematic:	No information available.
Solvent content:	
Organic solvents:	0.0 %

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Water:	95.0 %
Solids content:	5.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Product is under normal ambient conditions (room temperature) chemically stable.
Thernak decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: For these concentrations no further relevant information available.

10.6 Hazardous decomposition products:
For this/these concentartion/s no dangerous products of decomposition known.
Additional information: No further relevant information available.

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 that are relevant for classification: Quantitative data about toxicity of this product are not available.
Specific symptoms in biological assay: No further relevant information available.
Primary irritant effect:
Skin corrosion/irritation In this concentration no irritant effects known.
Serious eye damage/irritation In this concentration no irritant effects known.
after swallowing: In this concentration no irritant effects known.
after inhalation: In this concentrations no irritant effects known.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Other information (about experimental toxicology): No further relevant information available.
Subacute to chronic toxicity: No further relevant information available.
Additional toxicological information: No further relevant information available.
Toxicokinetics, metabolism and distribution No relevant information available.
Acute effects (acute toxicity, irritation and corrosivity) No acute toxicity information available for this product.
Sensitisation No sensitising effect known.
Repeated dose toxicity No further relevant information available.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No relevant information available.
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: No further relevant information available.

12.2 Persistence and degradability According to OECD criteria readily biodegradable.
Other information: No further relevant information available.
Behaviour in environmental systems:
Components: Accumulation in organisms is not to be expected.

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12.3 Bioaccumulative potential Bioaccumulation is not to be expected.

12.4 Mobility in soil No data available.
Additional ecological information:
General notes:
At present there are no ecotoxicological assessments.
Water hazard class 2 (Self-assessment): hazardous for water.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects No relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product residues have to disposed of according to the Waste Framework Directive as well as national and regional regulations in each the latest versions.

Uncleaned packagings:
Recommendation: Uncleaned packagings have to be disposed of in the same manner as the product residues.

SECTION 14: Transport information

14.1 UN-Number **ADR, ADN, IMDG, IATA**	-
14.2 UN proper shipping name **ADR** **ADN, IMDG, IATA**	- -
14.3 Transport hazard class(es) **ADR, ADN, IMDG, IATA** **Class**	-
14.4 Packing group **ADR, IMDG, IATA**	-
14.5 Environmental hazards: **Marine pollutant:**	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	No dangerous good according to the above specifications.
UN "Model Regulation":	-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 See Section 2.

National regulations

Information about limitation of use:
Take note of the directive on the protection of young people at work in the latest version.

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Take note of the directive on the safety and health at work for pregnant and breast feeding mothers and workers of childbearing age in the latest version.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations Void.
Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

All information and recommodations are believed to be correct as of the date of this Safety Data Sheet but shall not be taken to be all inclusive and shall be used only as a guide. All chemicals and preparations may present unknown hazards and should be used with caution. medac shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases
H228 Flammable solid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Department issuing data specification sheet: Product Safety
Contact: productsafety@medac.de
Replaces version from: 18.07.2014
Reason for alteration: Change of contact address.
Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport 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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified 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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Sol. 1: Flammable solids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2