

Safety Data Sheet

referring to Regulation (EC) Nr. 1907/2006 (REACH)



Name: SEDAPAC-...MS / SEDAFILL-...MS

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Modified: 05. March 2020
Print Date: 05. March 2020

SDB-Nr. 151_20200305
Version: 3.0.0

SEDAPAC-...MS / SEDAFILL-...MS

1. Identification of the substance/mixture and of the company/undertaking		
1.1	<p>Product identifier REACH Registration No.</p>	<p>SEDAPAC-...MS / SEDAFILL-...MS</p> <p>A registration number for this product is not present, because the product or its use according to Regulation (EG) Nr. 1907/2006 (REACH), Article 2 excluded from the registration, or the annual tonnage does not require a registration or the registration is scheduled for a later date</p>
1.2	<p>Relevant identified uses of the substance or mixture, and uses advised against</p>	<p>Recommended use: adsorbent</p>
1.3	<p>Details of the supplier of the Safety Data Sheet</p>	<p>nano-purification solutions 5509 David Cox Road Charlotte, NC 28269 USA ☎ +1 704 897 2182 support@nano-purification.com</p>
1.4	<p>Emergency telephone number</p>	<p>+49(0)2054-8735-0 Office time Mo-Fr 08:00 – 17:00</p>

2. Hazards identification		
2.1	<p>Classification according to Directive (EC) Nr. 1999/45 Classification according to Regulation (EC) Nr. 1272/2008, appendix VII</p>	<p>The product is not subject to classification according to EC-Regulation</p> <p>The product is not subject to classification according to EC-Regulation</p>
2.2	<p>Labelling according to Regulation (EC) Nr. 1272/2008 Signal word Hazards statements Precautionary statements</p>	<p>The product is not subject to labelling according to EC-Regulation</p> <p>Inapplicable</p> <p>Inapplicable</p> <p>Not required</p>
2.3	<p>Other Hazards</p>	<p>No specific dangers known, if the regulations/notes for storage and handling are considered</p>

3. Composition/Information on ingredients																						
3.1	<p>Substances</p>	<p>This product is a mixture</p>																				
3.2	<p>Mixture</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th colspan="5">Ingredient declaration according to Regulation (EC) Nr. 1272/2008:</th> </tr> <tr> <th style="width: 35%;">Dangerous substance</th> <th style="width: 15%;">EG-Number</th> <th style="width: 15%;">CAS No.</th> <th style="width: 15%;">Weight % content</th> <th style="width: 20%;">Classification</th> </tr> </thead> <tbody> <tr> <td>No dangerous substance</td> <td></td> <td></td> <td></td> <td>Inapplicable</td> </tr> <tr> <td colspan="5" style="text-align: center;">Substance without classification can be have country-specific workplace exposure limits</td> </tr> </tbody> </table>	Ingredient declaration according to Regulation (EC) Nr. 1272/2008:					Dangerous substance	EG-Number	CAS No.	Weight % content	Classification	No dangerous substance				Inapplicable	Substance without classification can be have country-specific workplace exposure limits				
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Dangerous substance	EG-Number	CAS No.	Weight % content	Classification																		
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For full text R+S-phrases or H+P-statements and other abbreviation see section 16 'Other information'

4. First aid measures

4.1	Description of first aid measures	
	Generell notes	Observe the following measures
	Following inhalation	Remove to fresh air; if symptoms persist, get medical attention
	Following skin contact	Wash thoroughly with soap and water
	Following eye contact	Rinse cautiously with water or eye-cleaning solution for several minutes; keeping lids wide open; if symptoms persist, get medical attention
	Following ingestion	Rinse mouth and then drink plenty of water; if symptoms persist, get medical attention
4.2	Most important symptoms and effects, both acute and delayed	No significant reaction of the human body to the product known
4.3	Indication of any immediate medical attention and special treatment needed	Symptomatic treatment (decontamination, vital functions)

5. Firefighting measures

5.1	Extinguishing media	
	Suitable extinguishing media	Water spray, foam, dry powder
	Unsuitable extinguishing media	None known
5.2	Special hazards arising from the substance or mixture	None known
5.3	Advice for firefighters	Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered; dispose of fire debris and contaminated extinguishing water in accordance with official regulations

6. Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures	Use personal protective clothing; avoid contact with the skin, eyes and clothing
6.2	Environmental precautions	Discharge into the environment must be avoided
6.3	Methods and material for containment and cleaning up	Avoid raising dust; pick up mechanically and dispose of
6.4	Reference to other sections	Notes see section 7, 8 and 13

7. Handling and storage

7.1	Precautions for safe handling	No special measures necessary provided product is used correctly
7.2	Conditions for safe storage, including any incompatibilities	Containers should be stored tightly sealed in a dry place; product is hygroscopic; Suitable materials for containers: aluminum, glass, HDPE fluorinated, high density polyethylene (HDPE), low density polyethylene (LDPE), paper, stainless steel, steel Precautions against fire and explosion: the product is neither self-ignitable, nor an explosion hazard, nor does it promote fires TRGS 510 storage class: (13) non combustible materials

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7.3	Specific end use(s)	None
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8. Exposure controls/personal protection

8.1 Control parameters			
Ingredients	Type	mg/m ³	Category
Zeolites	TWA (ALVEO) (Germany)	1,25	Recommendation, use as guideline
8.2 Exposure controls			
Appropriate engineering controls	Good dust removal		
Eye and face protection	Safety glasses	Safety glasses according to EC 166:2001	
Skin protection	Protective gloves	Wear gloves for protection against chemical hazards according to EN 388; 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; recommended: Nitrile rubber NBR or Butyl rubber BR, thickness $\geq 0,11$ mm; Penetration time of glove material: EN 420 – Minimum requirements for efficiency level 1 for all groups, 480 minutes penetration time according to EN 374, Part 3: Level 6; check the condition of the gloves prior to each use; preventive skin protection by use of skin-protecting agents is recommended; after use of gloves apply skin-cleaning agents and skin cosmetics	
	Other protective measures	Body protection: protective work clothing	
Respiratory protection	Particulate filters P1	Breathing protection if dusts are formed	
Thermal Hazards	Inapplicable		
General protective and hygienic measures	Store working clothing separately; hands and/or face should be washed before breaks and at the end of the shift		

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance (physical state, colour)	Solid, Beads 2,5-5,0mm, white to red-brown
Odour	Odourless
Odour threshold	Not applicable
pH	9-11
Melting point/Freezing point	> 55 °C Experimentel not determined
Initial boiling point and boiling range	Not relevant
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Product is not flammable
Upper/lower flammability or explosive limits	Not applicable

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Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Bulk density: 650-750g/l
Solubility(ies)	Insoluble
Partition coefficient: n-octanl/water	Not been determined because the product is inorganic
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	Experimentel not determined
Viscosity	Not applicable
Explosive properties	Product does not present an explosion hazard
Oxidising properties	Not applicable
9.2 Other information	Other physical and chemical parameters have not been determined

10. Stability and Reactivity

10.1 Reactivity	No dangerous reactions known
10.2 Chemical stability	The product is chemically stable
10.3 Possibility of hazardous reactions	No dangerous reactions known
10.4 Conditions to avoid	Avoid dust formation; avoid moisture
10.5 Incompatible materials	Mineral acids, organic acids, strong oxidizing agents
10.6 Hazerdous decomposition products	No hazardous decomposition products known

11. Toxicological information

11.1 Information on toxicological effects for mixtures	
Acute toxicity	Virtually nontoxic after a single ingestion
Irritation	Not irritating to eyes and skin
Corrosivity	None known
Sensitisation	No sensitizing effect
Repeated dose toxicity	No adverse effects were observed after repeated exposure in animal studies
Carcinogenicity	The whole of the information available provides no indication of a carcinogenic effect
Mutagenicity	Experimentel not determined
Toxicity for reproduction	The results of animal studies gave no indication of a fertility impairing effect
Other toxicity information	The product has not been tested. The statement has been derived from the properties of the individual components. The product has been assessed on the basis of the components available data. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

12. Ecological information

Toxicity	
12.1 Aquatic toxicity	There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual cpmponents.

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12.2	Persistence and degradability	Nor applicable for inorganic substances
12.3	Bioaccumulative potential	The product will not be readily bioavailable due to its consistency and insolubility in water
12.4	Mobility in soil	Adsorption to solid soil phase is not expected
12.5	Results of PBT and vPvB assessment	The mixture does not contain any substances that are assessed to be a PBT or a vPvB
12.6	Other adverse effects	No known adverse effects

13. Disposal considerations		
13.1	Waste treatment methods	The product should be disposed in line with regional, national and European legislation, and possible adaption to local conditions
	Waste codes (EWC/EAK)	The disposal must be done in accordance with the waste management legislation; EWC waste codes are industry and process specific, therefore waste classification has to be done by the waste producer
	Packaging	Disposal must be made according to official regulations

14. Transport information		
14.1	UN-Number	Not dangerous according to EC-Regulation
14.2	UN proper shipping name	Inapplicable
14.3	Transport hazard class(es)	Inapplicable
	Hazard label	Inapplicable
14.4	Packing group	Inapplicable
14.5	Environmental hazards	Inapplicable
14.6	Special precautions for user	See section 6-8
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Inapplicable

15. Regulatory information		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Hazard pictograms	The product is not subject to labelling according to EC-Regulation
	Signal word	Not applicable
	Contains	Zeolite; Quartz (SiO ₂)
	Hazards statements	Not applicable
	Precautionary statements	Not applicable
	National regulations (Germany)	WGK = nwg (VwVws Appendix I from 30.07.2005): generally not hazardous for water
15.2	Chemical Safety Assessment	Product is not classified as dangerous

16. Other information		
	Full text of Hazard Information, Hazard Statements and Precautionary Statements, referred to the section 2	Inapplicable

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Training advice

Provide adequate information, instruction and training of users

Literature references and source for data

More product information: product data sheets under www.nano-purification.com

More Information

The highlighted chapter number in bold indicate chapter changes compared to the previous version.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Because data, safety standards and government regulations can be changed and the use and handling provisions are beyond our control we can't guarantee the completeness or continuing accuracy of the information.

All conditions relating to storage, handling and use of the product are beyond our control. Holder and user of this product are solely responsible for these circumstances.

Abbreviations and acronyms

67/548/EWG (DSD) - Dangerous Substances Directive / Richtlinie gefährliche Stoffe; Aufgehoben durch EG Nr. 1272/2008 **1999/45/EG (DPD)** - Dangerous Preparations Directive / Richtlinie gefährliche Zubereitungen; Aufgehoben durch EG Nr. 1272/2008 **ADR** - Accord européen 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 **AGW** - Arbeitsplatzgrenzwert / Occupational Exposure Limit Value **AGS** - Ausschuss für Gefahrstoffe / Committee for Hazardous substances **Allg. Staubg** - Allgemeiner Staubgrenzwert / General dust limit **Alveo** - Alveolengängige Fraktion / Respirable fraction **AND** - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) / Verordnung über die internationale Beförderung gefährlicher Güter im Schiffsverkehr **a.n.g.** - anderweitig nicht genannt / not elsewhere defined **AVV** - Abfallverzeichnis-Verordnung (Verordnung über das Europäische Abfallverzeichnis) / Waste Catalogue Ordinance **BAW** - Betriebsanweisung / Working instruction **CAS** - Chemical Abstracts Service / Internationaler Bezeichnungsstandard für chemische Stoffe **DNEL** - Derived No Effect Level / Abgeleitetes Null-Effekt-Niveau **EC50** - mittlere akute effektive Konzentration / Median acute effective concentration **EG Nr. 648/2004/EG** - Regulation on Detergents / Verordnung über Detergenzien / **EG Nr. 790/2009** - Regulation on Classification, Labelling, and Packaging of Substances and Mixtures / Verordnung über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen und zur Änderung der Richtlinie EG Nr. 1272/2008 **EG Nr. 1272/2008 (CLP)** - Regulation on Classification, Labelling, and Packaging of Substances and Mixtures / Verordnung über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen und zur Änderung der Richtlinie EG Nr. 1907/2006 auch **GHS** Verordnung - Globally Harmonized System of Classification and Labeling of Chemicals genannt **EG Nr. 1907/2006 (REACH)** - Registration, Evaluation, Authorisation of Chemicals / Registrierung, Bewertung und Zulassung von Chemikalien **EINECS** - European Inventory of Existing Commercial Chemical Substances / Europäisches Verzeichnis der im Handel erhältlichen Stoffe (Altstoffe) **ELINCS** - European List of Notified Chemical Substances / Europäisches Verzeichnis der auf dem Markt vorhandenen chemischen Stoffe (Neustoffe) **EN 166:2001** - Persönlicher Augenschutz / Personal eye protection **EN 374** - Schutzhandschuhe gegen Chemikalien und Mikroorganismen / Protective gloves against chemicals and microorganisms **EN 388** - Schutzhandschuhe gegen mechanische Risiken / Protective gloves against mechanical risks **EN 420** - Schutzhandschuhe - Allgemeine Anforderungen und Prüfverfahren / Protective gloves - General requirements and test methods **ESIS** - European chemical substances information system / Europäisches Informationssystem für chemische Stoffe **EAK/EWC** - Europäischer Abfallkatalog / European Waste Catalogue **Erzeugnis** - Gegenstand, der bei der Herstellung eine spezifische Form, Oberfläche oder Gestalt erhält, die in größerem Maße als die chemische Zusammensetzung seine Funktion bestimmt / article - means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition **FFP1 / P1** - Einweg / Atemschutzmasken für feste gesundheitsschädliche fibrogene Partikel und flüssige Aerosole bis zum 4-fachen der maximalen Arbeitsplatzkonzentration / Disposable / Respirator for solid harmful fibrogenic particles and liquid aerosols up to 4-fold maximum Occupational Exposure Limit Value **FFP2 / P2** - Einweg / Atemschutzmasken für feste und rauchförmige, mindergiftige Partikel sowie flüssige Aerosole bis zum 10-fachen der maximalen Arbeitsplatzkonzentration / Disposable / Respirator for solid and smoke-like, less toxic particles and liquid aerosols up to 10-fold maximum Occupational Exposure Limit Value **FFP3 / P3** - Einweg / Atemschutzmasken für feste, giftige Partikel sowie flüssige Aerosole bis zum 30-fachen der maximalen Arbeitsplatzkonzentration / Disposable / Respirator for solid, toxic particle and liquid aerosols up to 30-fold maximum Occupational Exposure Limit Value **GHS** - siehe EG Nr. 1272/2008 / see EG Nr. 1272/2008 **GefStoffV** - Gefahrstoffverordnung / Ordinance on Hazardous Substances, Germany **Gemisch** - Gemenge, Gemische oder Lösungen, die aus zwei oder mehr Stoffen bestehen / mixture - means a mixture or solution composed of two or more substances **HZVA** - Herstellung, Zubereitung, Vertrieb, Anwendung / production, preparation, distribution, usage **IMDG** - International Maritime Code for Dangerous Goods / Gefahrgutkennzeichnung für gefährliche Güter im Schiffsverkehr **IARC** - International Agency for Research on Cancer / Internationale Agentur für Krebsforschung **IBC** - International Bulk Chemical Code (Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk) / Vorgaben für die Beförderung gefährlicher Chemikalien und gesundheitsschädlicher Flüssigkeiten als Massengut in der Seeschifffahrt **IUCLID** - International Uniform Chemical Information Database / International einheitliche Datenbank für Informationen über chemische Stoffe **LC50** - mittlerer letale Konzentration / Lethal Concentration to 50% of a test population **LD50** - mittlere letale Dosis / Lethal Dose to 50% of a test population **MAK** - maximale Arbeitsplatzkonzentration / Maximum Occupational Exposure Limit Value **MARPOL 73/78** - Annex II of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto / Internationales Übereinkommen zur Verhütung der Meeresverschmutzung durch Schiffe **NOEC** -

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no observed effects concentration / höchste Konzentration eines Stoffes **NOEL** - no observed effects level / höchste Dosis eines Stoffes **OECD** - Organisation for Economic Co-operation and Development / Organisation für wirtschaftliche Zusammenarbeit und Entwicklung **OSHA** - Occupational Safety and Health Administration / Arbeitsschutzbehörde des Vereinigten Staaten **PBT** - potentially persistent, bioaccumulative and toxic / persistent, bioakkumulierend und toxisch **PEC** - predicted environmental concentration / Vorausgesagte wahrscheinliche Konzentration **PEL** - (OSHA) Permissible Exposure Limit / Zulässige Kontaktgrenze der OSHA **PNEC** - predicted no-effect concentration / Vorausgesagte auswirkungslose Konzentration **ppm** - parts per million / Teile von einer Million **RID** - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) / Verordnung über die internationale Eisenbahnbeförderung gefährlicher Güter **SDB** - Sicherheitsdatenblatt / **SDS** - Safety Data Sheet **Stoff** - chemisches Element und seine Verbindungen in natürlicher Form oder gewonnen durch ein Herstellungsverfahren / substance - means a chemical element and its compounds in the natural state or obtained by any manufacturing process **TG (401)** - Test Guideline (401) / Test Richtlinie (4019) **TLV-TWA** - Threshold Limit Values-Time Weighted Average (American Conference of Governmental Hygienists, 1999) / die zeitgewichtige Durchschnittskonzentration für einen normalen 8-Stunden-Tag und eine 40-Stunden-Woche, der fast alle Arbeiter wiederholt, Tag für Tag, ausgesetzt sein dürfen, ohne negative Auswirkungen zu erleiden / the time-weight average concentration for a normal 8-hour workday and a 40-hour week, which almost all workers repeatedly, day after day, may be exposed without suffering adverse effects) **TRGS 900** - Technische Regel für Gefahrstoffe (Arbeitsplatzgrenzwerte) / Technical rules for hazardous substances (Occupational Exposure Limit Value) **TRGS 510** - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern / Storage of hazardous substances in nonstationary containers **vPvB** - potentially very persistent and very bioaccumulative / besonders persistent und bioakkumulierend **VwVwS** - Allgemeine Verwaltungsvorschrift zur Änderung der Verwaltungsvorschrift wassergefährdender Stoffe / General administrative regulation to amend the administrative regulation of water endangering substances **WEL** - Workplace Exposure Limits **WHG** - Wasserhaushaltsgesetz / Federal Water Act **WGK** - Wassergefährdungsklasse / Water Hazard Class

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