

Safety Data Sheet



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

Name: SEDAPAC-...A / SEDAFILL-...A

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Modified: 05. March 2020

SDB-Nr. 156_20200305

Print Date: 05.March 2020

Version: 3.0.0

SEDAPAC-...A / SEDAFILL-...A

1. Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	SEDAPAC-...A / SEDAFILL-...A
	REACH Registration No.	01-2119488894-16-XXXX
1.2	Relevant identified uses of the substance or mixture, and uses advised against	Activated Carbon
1.3	Details of the supplier of the Safety Data Sheet	nano-purification solutions 5509 David Cox Road Charlotte, NC 28269 USA ☎ 1 704 897 support@nano-purification.com
1.4	Emergency telephone number	+49(0)2054-8735-0 Office time Mo-Fr 08:00 – 17:00

2. Hazards identification

2.1	Classification according to Directive (EC) Nr. 1999/45	The product is not subject to classification according to EC-Regulation
	Classification according to Regulation (EC) Nr. 1272/2008, appendix VII	The product is not subject to classification according to EC-Regulation
2.2	Labelling according to Regulation (EC) Nr. 1272/2008	The product is not subject to labelling according to EC-Regulation
	Signal word	Inapplicable
	Hazards statements	Inapplicable
	Precautionary statements	None
2.3	Other Hazards	Forming an explosive mixture is possible under certain conditions

3. Composition/Information on ingredients

3.1 Substances

	EG-Number	CAS No.	Weight % content	Classification
Carbonaceous material	231-153-3	7440-44-0	Approx. 90%	Inapplicable

3.2 Mixture

	Ingredient declaration according to Regulation (EC) Nr. 1272/2008:			
Dangerous substance	Inapplicable			
Substance without classification can be have country-specific workplace exposure limits				
	Ingredient declaration according to Directive (EC) Nr. 1999/45 :			

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Inapplicable
Substance without classification can be have country-specific workplace exposure limits
For full text R+S-phrases or H+P-statements see section 16

4. First aid measures											
4.1 Description of first aid measures	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Generell notes</td> <td style="padding: 2px;">Remove contaminated clothing</td> </tr> <tr> <td style="padding: 2px;">Following inhalation</td> <td style="padding: 2px;">Remove to fresh air; if symptoms persist, get medical attention</td> </tr> <tr> <td style="padding: 2px;">Following skin contact</td> <td style="padding: 2px;">Wash with water and soap</td> </tr> <tr> <td style="padding: 2px;">Following eye contact</td> <td style="padding: 2px;">Rinse cautiously with water or eye-cleaning solution for several minutes; keeping lids wide open; if symptoms persist, get medical attention</td> </tr> <tr> <td style="padding: 2px;">Following ingestion</td> <td style="padding: 2px;">Rinse mouth and drink plenty of water; if symptoms persist, get medical attention</td> </tr> </table>	Generell notes	Remove contaminated clothing	Following inhalation	Remove to fresh air; if symptoms persist, get medical attention	Following skin contact	Wash with water and soap	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 drink plenty of water; if symptoms persist, get medical attention
Generell notes	Remove contaminated clothing										
Following inhalation	Remove to fresh air; if symptoms persist, get medical attention										
Following skin contact	Wash with water and soap										
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 drink plenty of water; if symptoms persist, get medical attention										
4.2 Most important symptoms and effects, both acute and delayed	Specific responses of the human body on the product are not known										
4.3 Indication of any immediate medical attention and special treatment needed	See description of first aid measures										

5. Firefighting measures					
5.1 Extinguishing media	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">Suitable extinguishing media</td> <td style="padding: 2px;">Foam or water mist</td> </tr> <tr> <td style="padding: 2px;">Unsuitable extinguishing media</td> <td style="padding: 2px;">CO2</td> </tr> </table>	Suitable extinguishing media	Foam or water mist	Unsuitable extinguishing media	CO2
Suitable extinguishing media	Foam or water mist				
Unsuitable extinguishing media	CO2				
5.2 Special hazards arising from the substance or mixture	During smoldering fires carbon monoxide and carbon dioxide are produced				
5.3 Advice for firefighters	A respiratory protection should be used, which is independent of the circulating air				

6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	Avoid dust formation; do not breathe dust, avoid contact with skin, eyes and clothing; use personal protective equipment; sufficient circulation air should be present; ignition sources to be removed
6.2 Environmental precautions	No specials measures required
6.3 Methods and material for containment and cleaning up	Sweep the spill area; swept material disposed of properly
6.4 Reference to other sections	Notes see section 7, 8 and 13

7. Handling and storage	
7.1 Precautions for safe handling	Avoid dust formation and deposition of dust
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly sealed; store under dry conditions; do not store with strong oxidizing agents, nor with solvents Precautions against fire and explosion: product is flammable; during smoldering fires carbon monoxide and carbon dioxide are produced
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
Activated Carbon	MAK (ALVEOLAR)	1,5	Long-term value; General dust limit
Activated Carbon	MAK (RESPIRABLE)	4	Long-term value; General dust limit

8.2 Exposure controls		
Appropriate engineering controls	Good ventilation	
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: must be chosen based on level of activity and exposure
Respiratory protection	Particulate filters P2 / FFP2	Breathing protection if dusts are formed
Thermal Hazards	Inapplicable	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance (physical state, colour)	Solid, Grains – Sticks, Black
Odour	Odourless
Odour threshold	Inapplicable
pH	6-12
Melting point/Freezing point	>1000 (estimated)
Initial boiling point and boiling range	>1000 (estimated)
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Product is flammable
Upper/lower flammability or explosive	Experimental not determined

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limits	
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Bulk density approx. 350-580 kg/m ³
Solubility(ies)	Not soluble
Partition coefficient: n-octanl/water	Experimental not determined
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	Experimental not determined
Viscosity	Experimental not determined
Explosive properties	Product is non-explosive, however explosive dust/air mixtures might be formed
Oxidising properties	Experimental not determined
9.2 Other information	Other physical and chemical parameters have not been determined

10. Stability and Reactivity

10.1 Reactivity	No hazardous reactions when the specifications and instructions for storage and handling are considered
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	No dangerous reactions known
10.4 Conditions to avoid	No further relevant information available
10.5 Incompatible materials	Avoid contact with strong oxidizing agents, solvents and other chemicals
10.6 Hazardous decomposition products	No decomposition if used according to specifications

11. Toxicological information

11.1 Information on toxicological effects for mixtures	
Acute toxicity	When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us
Irritation	None known
Corrosivity	None known
Sensitisation	Not sensitizing
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	No data available
Toxicity for reproduction	No data available
Other toxicity information	None

12. Ecological information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available

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12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	The product does not meet the criteria for classification as PBT or a vPvB
12.6	Other adverse effects	Generally not hazardous for water

13. Disposal considerations		
13.1	Waste treatment methods	The product should be disposed in line with regional, national and European legislation
	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 classified as a dangerous good 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 does not require a hazard warning label in accordance with EC Directives
	Signal word	Inapplicable
	Contains	Approx. 90% carbonaceous material
	Hazards statements	Inapplicable
	Precautionary statements	None
	National regulations (Germany)	WGK = nwg (VwVws Appendix I from 30.07.2005): not hazardous for water
15.2	Chemical Safety Assessment	Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

16. Other information		
	Full text of Hazard Information, Hazard Statements and Precautionary Statements, referred to the section 2 and 3	None
	Training advice	Provide adequate information, instruction and training of users

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Literature references and source for data

More Information

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

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** - 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

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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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