

Safety Data Sheet

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



Name: SEDAPAC-...WS / SEDAFILL-...WS

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Modified: 05. March 2020

SDB-Nr. 152_20200305

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SEDAPAC-...WS / SEDAFILL-...WS

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

1.1	Product identifier	SEDAPAC-...WS / SEDAFILL-...WS
	REACH Registration No.	01-2119537440-47-XXXX
1.2	Relevant identified uses of the substance or mixture, and uses advised against	Solid matter for drying of liquids and gases
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 2182 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	Inapplicable
2.3	Other Hazards	No special hazards known, when the specifications and instructions for storage and handling are considered

3. Composition/Information on ingredients

3.1 Substances

	<u>Ingredient declaration according to Regulation (EC) Nr. 1272/2008:</u>			
Dangerous substance	EG-Number	CAS No.	Weight % content	Classification
No dangerous substance				Inapplicable
Ingredients				
Aluminium silicate	215-475-1	1327-36-2	99,75	Inapplicable
Substance without classification can be have country-specific workplace exposure limits				
	<u>Ingredient declaration according to Directive (EC) Nr. 1999/45 :</u>			

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		Inapplicable
		Substance without classification can be have country-specific workplace exposure limits
3.2	Mixture	This product is a substance
		For full text R+S-phrases or H+P-statements see section 16

4. First aid measures		
4.1	Description of first aid measures	
	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	Symptomatic treatment (Decontamination, Vital-functions)

5. Firefighting measures		
5.1	Extinguishing media	
	Suitable extinguishing media	Carbon dioxide, dry chemical, foam, water spray; product himself does not burn; use fire extinguishing methods suitable to surrounding conditions
	Unsuitable extinguishing media	None known
5.2	Special hazards arising from the substance or mixture	None known
5.3	Advice for firefighters	Wear self-contained breathing apparatus

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
6.2	Environmental precautions	Avoid release to the environment
6.3	Methods and material for containment and cleaning up	Avoid generation of dust; sweep the spill area; swept material disposed of properly, if possible recovery for processing
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; provide good ventilation
7.2	Conditions for safe storage, including any incompatibilities	Suitable materials for containers: carbon steel (iron), Low density polyethylene (LPDE), high density polyethylene (HDPE); keep container tightly closed and dry; Precautions against fire and explosion: the product is neither self-ignitable, nor an explosion hazard, nor does it promote fires

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TRGS 510 storage class: (13) non combustible materials	
7.3 Specific end use(s)	Among the relevant identified uses according to section 1, the instructions mentioned in this section should be noted

8. Exposure controls/personal protection

8.1 Control parameters			
No Occupational Exposure Limit Value known			
Ingredients	Typ	mg/l	Category
Aluminate silicate	PNEC	4,1	Fresh Water
		0,082	Seawater
		25	Sporadic release
Ingredients	Typ	mg/m³	Category
Aluminate silicate	DNEL	3	Short-term exposure - local effects, inhalation
		3	Short-term exposure - systematic effects, inhalation
		3	Long-term exposure - local effects, inhalation
		3	Long-term exposure - systematic effects, inhalation

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 ≥0,11mm; 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 measusres	Body protection: must be chosen based on level of activity and exposure
Respiratory protection	Particulate filters P1 / FFP1	Breathing protection if dusts are formed; Particle filter with low efficiency for solid particles
Thermal Hazards	Inapplicable	
General protective and hygienic measures	When using do not eat, drink or smoke; before breaks and end of work wash hands and/or face	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance (physical state, colour)	Solid, Beads, Light brown to Brown
Odor	Odorless
Odor threshold	Not applicable
pH	4
Melting point/Freezing point	> 550°C (1.013 hPa) not determined, product decomposes
Initial boiling point and boiling range	1.013 hPa not applicable, solid with melting-point above 300°C
Flash point	Not applicable, product is solid
Evaporation rate	Not applicable, product is non-volatile solid
Flammability (solid, gas)	Product is not flammable
Upper/lower flammability or explosive limits	For solids not classification- or identification-relevant
Vapour pressure	Not applicable, solid with melting-point above 300°C
Vapour density	Not applicable, product is non-volatile solid
Relative density	2.143 g/cm ³ (20°C) Bulk density: 400-900 kg/m ³
Solubility(ies)	Not soluble
Partition coefficient: n-octanol/water	The value has not be determined, because the substance is inorganic
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	No decomposition when the specifications and instructions for storage and handling are considered
Viscosity	Not applicable, product is solid
Explosive properties	Product is not explosive
Oxidising properties	Experimentel 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	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	No incompatible materials known
10.6 Hazardous 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
	Experimental calculated date:
	Oral LD50 > 5000 mg/kg (rat) OECD Guideline 401
	The statement for acute oral toxicity was derived from products of similar composition
Irritation	No irritation effect to the skin, no irritation effect to the eyes
Corrosivity	None known

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Sensitisation	Skin sensitizing effects were not observed in animal studies
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	The product shows in bacteria no mutagenic properties
Toxicity for reproduction	No data available
Other toxicity information	Due to the consistency and low water solubility of the product bioavailability is not probably

12. Ecological information

12.1 Toxicity

The product has not been tested; the statement has been derived from products of a similar structure or composition	Fish toxicity	LC 50 (96h)	10.000 mg/l (Brachydanio rerio)
	Water flea toxicity	EC50 (24h)	1.000 mg/l (Daphnia magna) OECD TG 202
	Algae toxicity	EC50 (72h)	10.000 mg/l (Scenedesmus subspicatus)
	Bacterial toxicity		No data available

12.2 Persistence and degradability	Not applicable for inorganic substances
12.3 Bioaccumulative potential	Accumulation in organisms is not to be expected
12.4 Mobility in soil	A binding to the solid soil phase is not to be 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 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

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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	Aluminium silicate
Hazards statements	Inapplicable
Precautionary statements	Inapplicable
National regulations (Germany)	WGK = 1 (VwVws Appendix I from 30.07.2005): slightly hazardous for water
15.2 Chemical Safety Assessment	Product not classified as hazardous

16. Other information	
Full text of Hazard Information, Hazard Statements and Precautionary Statements, referred to the section 2 and 3	Inapplicable
Training advice	Provide adequate information, instruction and training of users More product information: product data sheets under www.nano-purification.com
Literature references and source for data	
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	

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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 particels 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 particels 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 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 (401) **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 **VwVwvs** - 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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