

Safety Data Sheet in accordance with GB/T 16483 and GB/T 17519

BAG DESI PAK DIN 160/PE/C (100g)

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Substance key: SC0000107388	First compiled on: 2015/07/20
Version : 1 - 8 / CHI	Revision Date: 2023/12/18
	Date of printing : 2024/09/06

1. PRODUCT AND COMPANY IDENTIFICATION

Trade name

BAG DESI PAK DIN 160/PE/C (100g)

Material number: 291241

CAS-No.: 1302-78-9

EC-No.: 215-108-5

Chemical nature: Desiccant

Use of the Substance/Mixture

Type of use: Desiccant

Identification of the company

Clariant Produkte (Deutschland) GmbH

Ostenriederstrasse 15
85368 Moosburg
Telephone : +49 (0)8761/82-0

Information about the substance/preparation

BU Adsorbents & Additives
Product Stewardship
E-mail address: SDS.Europe@clariant.com

Emergency telephone number: +86 532-83889090
(For product with GHS classification (Qingdao NRCC))

+86 21 37911379
(For product without GHS classification (Jinshan Shanghai))

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: lumpy, granular, powder
Colour	: bright to earthy
Odour	: odourless

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

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Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

No release of desiccant clay dusts expected under normal use of the desiccant clay bags. The information contained in chapters 6, 7 and 8 are to be considered only in case of accidental release of larger quantities.

The product contains less than 0.1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: Bentonite, Desiccant clay packed in nonwoven bags.
CAS-No.	: 1302-78-9

Components

No hazardous ingredients

4. FIRST AID MEASURES

General advice	: No known delayed effects. Consult a physician for all exposures except for minor instances.
If inhaled	: Remove to fresh air immediately. Get medical attention immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
If swallowed	: Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects, both acute and delayed	: There are no acute and delayed symptoms and effects observed. No information available.
Notes to physician	: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water spray jet
Dry powder
Foam
Carbon dioxide (CO₂)

- Unsuitable extinguishing media : No restrictions
- Specific hazards during firefighting : The product is not flammable.
Does not sustain combustion.
No hazardous decomposition products are known.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Special sliding risk through leaking of spilled product in connection with water.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Avoid dust formation.
Evacuate personnel to safe areas.
Avoid contact with skin, eyes and clothing.
Wear personal protective equipment.
Avoid breathing dust.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Special sliding risk through leaking of spilled product in connection with water.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Pick up and transfer to properly labelled containers.
If product is released from trucks in roads, place signposts and remove the spill using vacuum cleaning systems.
- Prevention of secondary hazards : Avoid dust formation; avoid dry sweeping
Use vacuum suction unit, or shovel into bags.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Avoid dust formation.
Provide sufficient air exchange and/or exhaust in work rooms.
In case of insufficient ventilation, wear suitable respiratory equipment.
For personal protection see section 8.

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Handle and open container with care.
If you require advice on safe handling techniques or specific uses, please contact your supplier or check the further information referred to in section 16.

Avoidance of contact : inert, not reactive
Avoid storing together with materials that may be affected by dust.

Storage

Conditions for safe storage : Minimize airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

Materials to avoid : No conditions to be specially mentioned.

Further information on storage stability : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Bentonite	1302-78-9	PC-TWA (Total dust)	6 mg/m ³	CN OEL

Engineering measures : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Local ventilation to keep levels below established threshold values is recommended. In case of prolonged exposure to airborne dust concentrations, a suitable particle filter mask that complies with the requirements of national legislation is recommended, depending on the expected exposure levels.

Eye/face protection : Do not wear contact lenses.
Safety glasses with side-shields
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Long sleeved clothing

Hand protection
Remarks : Use a high fat protective cream after cleaning skin. Wear

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suitable gloves.

Hygiene measures : Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: lumpy, granular, powder
Colour	: bright to earthy
Odour	: odourless
pH	: 6 - 11 (20 °C) Method: aqueous suspension For detail information please refer to our physical & chemical data sheet.
Melting point/range	: > 450 °C Method: EU A.1
Boiling point/boiling range	: not applicable (solid with a melting point > 450 °C)
Flash point	: Not applicable
Evaporation rate	: not applicable (solid with a melting point > 450 °C)
Flammability (solid, gas)	: does not ignite, Not expected to form explosive dust-air mixtures. Method: EU A.10
Self-ignition	: Method: 92/69/EEC, A.6. no relative self-ignition temperature below 400 °C
Lower explosion limit / Lower flammability limit	: non explosive (void of any chemical structures commonly associated with explosive properties)
Vapour pressure	: not applicable (solid with a melting point > 450 °C)
Relative vapour density	: Not applicable
Density	: 2.6 g/cm ³
Bulk density	: 500 - 1,100 kg/m ³ For detail information please refer to our physical & chemical data sheet.
Solubility(ies) Water solubility	: < 0.9 mg/l (20 °C)

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Method: Tested according to Directive 92/69/EEC.

Partition coefficient: n-octanol/water	: Not applicable inorganic
Decomposition temperature	: No decomposition if used as directed.
Viscosity Viscosity, dynamic	: not applicable (solid with a melting point > 450 °C)
Oxidizing properties	: no oxidizing properties (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)
Metal corrosion rate	: Not applicable
Particle size	: no data available

10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Forms slippery/greasy layers with water.
Incompatible materials	: inert, not reactive Avoid storing together with materials that may be affected by dust.
Hazardous decomposition products	: Not relevant

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg Method: US EPA Test Guideline OPP 81-1 Remarks: By analogy with a product of similar composition
Acute inhalation toxicity	: Remarks: no data available
Acute dermal toxicity	: Remarks: no data available

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Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : no data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro gene mutation study in mammalian cells
Method: OECD Test Guideline 476
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified due to lack of data.

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Product:

Carcinogenicity - Assessment : No information available.

Reproductive toxicity

Not classified due to lack of data.

Product:

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : **Specific symptoms in animal studies (likely route of exposure):**

In case of ingestion:

No acute or long term effects were seen in animal studies following oral exposure.

In case of skin contact:

No acute effects were seen in an animal study following acute dermal exposure.

Bentonite is not a skin irritant

In case of inhalation:

No acute effects were seen in an animal study following acute inhalation exposure.

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Bentonite contains crystalline silica, which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-aramid Fibrils"), the International Agency for Research on cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans". In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Crystalline silica has also been classified by the German MAK Commission as a human carcinogen (Category A1).

Although bentonite contains quartz, an intratracheal study (Creutzenberg 2008) on the read across substance bentonite demonstrated significant differences in toxicity following administration of equivalent doses of quartz as either bentonite (15.2 mg of bentonite with 60% quartz) or reference quartz (10.5 mg of 87% quartz). The reference-quartz caused significant, self-perpetuating lung toxicity while bentonite demonstrated significantly less toxicity and partial recovery during the study period. The main effect of bentonite was slight fibrosis and inflammation of the lung. The study demonstrated that a simple bridging of toxicity data from quartz to bentonite is not appropriate.

Occupational exposure to respirable dust should be monitored and controlled

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 16 g/l
Exposure time: 96 h

LC50 (Marine water fish): 2.8 - 3.2 g/l
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

EC50 (Metacarcinus magister): 81.6 mg/l
Exposure time: 96 h

EC50 (Pandalus danae): 24.8 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

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plants	Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Remarks: no data available
Plant toxicity	: 84.4 mg/kg Species: Phaseolus vulgaris Remarks: No effect on the growth was observed.
	84.4 mg/kg Species: Zea mays Remarks: No effect on the growth was observed.

Persistence and degradability

Product:

Biodegradability	: Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
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Bioaccumulative potential

Product:

Bioaccumulation	: Remarks: Not relevant for inorganic substances
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Mobility in soil

no data available

Other adverse effects

Product:

Additional ecological information	: none
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13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Can be disposed of as solid waste in a suitable installation subject to the Environmental Protection (Duty of Care) Regulations. Avoid dust formation.
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Contaminated packaging	: No specific requirements.
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14. TRANSPORT INFORMATION

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IATA	not restricted
IMDG	not restricted
TDG_CN	not restricted
RID	not restricted

15. REGULATORY INFORMATION

National regulatory information

Bentonite is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.

The product (bentonite) is not separately classified by the Occupational Health and Safety Administration (OSHA). The product has not been classified as a human carcinogen by OSHA, the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).

GB13690: General rule for classification and hazard communication of chemicals
Decree No. 591 of the State Council of the People's Republic of China: Regulations on the Control over Safety of Hazardous Chemicals.

GB 6944-2012: Classification and code of dangerous goods.

GB 12268-2012: List of dangerous goods.

GB 190-2009: Packing symbol of dangerous goods.

GB 30000.2-29 – 2013, Rules for classification and labelling of chemicals.

Law of the People's Republic of China on Prevention and Control of Occupational Diseases (Amended in 2011).

16. OTHER INFORMATION

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Further information

Training advice : Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Other information : Social Dialogue on Respirable Crystalline Silica:

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products

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containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

The indicator-card (HI-Card) that may be included in the scope of this delivery is a packaging supplement to check the product quality. Should the Safety Data Sheet of the HI-card be required, please contact the address mentioned in section 1 of this SDS.

Date format : yyyy/mm/dd

Full text of other abbreviations

CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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