

PKT DESI PAK® 1/2U TY 38X80 550/PP NHT

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 Substance key: SC0000107388
 Revision Date: 05/02/2017

 Version: 4 - 1 / USA
 Date of printing: 10/30/2017

SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: PKT DESI PAK® 1/2U TY 38X80 550/PP NHT

 Material number:
 256390

 CAS number:
 1302-78-9

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 1302-78-9

Hazardous components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.



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If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

The possible symptoms known are those derived from the

(1-800-222-1222 in the United States).

Most important symptoms

and effects, both acute and

labelling (see section 2). No additional symptoms are known.

delayed

Notes to physician Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

SECTION 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.



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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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required.

Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

Store in a dry place.

Store in a dry place.

Materials to avoid No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

: Use ventilation adequate to keep exposures below **Engineering measures**

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks Wear protective gloves. Wash thoroughly after handling.



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Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Self-ignition : Method: 92/69/EEC, A.6.

no relative self-ignition temperature below 400 °C

Upper explosion limit : Not applicable

Lower explosion 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/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)



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

Partition coefficient: n-

octanol/water

Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.



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Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:



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Effects on fertility : Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

Remarks: No effect on the growth was observed.



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Persistence and degradability

Product:

Biodegradability Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Additional ecological

information

According to experience and to the information currently available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code

: NONE

Waste from residues This product, if discarded as sold, is not a Federal RCRA

> hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

: No -- Not as sold.

No specific requirements. Contaminated packaging

SECTION 14. TRANSPORT INFORMATION

DOT not restricted **IATA** not restricted **IMDG** not restricted



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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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



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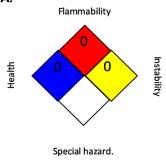
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Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Further information

NFPA:



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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN



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SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: PKT DESI PAK® 1/6U CP 27X62 1200/PP NHT

Material number: 256392

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

1302-78-9

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

CAS number:

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 1302-78-9

Hazardous components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.



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If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms

and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

SECTION 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.



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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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required. Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

Store in a dry place.

Store in a dry place.

Materials to avoid : No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use ventilation adequate to keep exposures below

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.



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Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Self-ignition : Method: 92/69/EEC, A.6.

no relative self-ignition temperature below 400 °C

Upper explosion limit : Not applicable

Lower explosion 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/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)



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

Partition coefficient: n-

octanol/water

Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.



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Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:



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Effects on fertility : Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

Remarks: No effect on the growth was observed.



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Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among : Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Additional ecological

information

According to experience and to the information currently

available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

DEL (

: No -- Not as sold.

Conservation and Recovery

Authorization Act

Waste Code

: NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA

hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

Contaminated packaging : No specific requirements.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted



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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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



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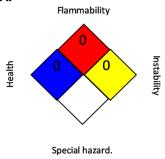
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Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Further information

NFPA:



Revision Date : 05/02/2017

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN



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 Substance key: SC0000107388
 Revision Date: 05/02/2017

 Version: 4 - 1 / USA
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SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: BAG DESI PAK® 1U T2 TY 641 3X4 300/PP

 Material number:
 254242

 CAS number:
 1302-78-9

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 1302-78-9

Hazardous components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.



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If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms

and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

SECTION 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.



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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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required.

Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

Store in a dry place.

Store in a dry place.

Materials to avoid No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

: Use ventilation adequate to keep exposures below **Engineering measures**

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks Wear protective gloves. Wash thoroughly after handling.



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Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Self-ignition : Method: 92/69/EEC, A.6.

no relative self-ignition temperature below 400 °C

Upper explosion limit : Not applicable

Lower explosion 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/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)



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

Partition coefficient: n-

octanol/water

Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.



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Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:



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Effects on fertility : Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

Remarks: No effect on the growth was observed.



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Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among : Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Additional ecological

information

According to experience and to the information currently

available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code

Waste from residues

: No -- Not as sold.

: NONE

This product, if discarded as sold, is not a Federal RCRA

hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

Contaminated packaging : No specific requirements.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted



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Substance key: SC0000107388	Revision Date: 05/02/2017
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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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



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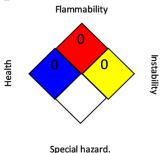
 Substance key: SC0000107388
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 Version: 4 - 1 / USA
 Date of printing: 06/28/2017

Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Further information

NFPA:



Revision Date : 05/02/2017

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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 Substance key: SC0000107388
 Revision Date: 05/02/2017

 Version: 4 - 1 / USA
 Date of printing: 07/07/2017

SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

Material number: 254253

CAS number: 1302-78-9

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 1302-78-9

Hazardous components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms

and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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

The Hazardous decomposition products are known.

In the event of fire, wear self-contained breathing apparatus. Special sliding risk through leaking of spilled product in

connection with water.

SECTION 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.



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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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required.

Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

Store in a dry place.

Store in a dry place.

Materials to avoid : No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use ventilation adequate to keep exposures below

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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 Substance key: SC0000107388
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Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Self-ignition : Method: 92/69/EEC, A.6.

no relative self-ignition temperature below 400 °C

Upper explosion limit : Not applicable

Lower explosion 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/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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

Partition coefficient: n-

octanol/water

Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.



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 Substance key: SC0000107388
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Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:



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 Substance key: SC0000107388
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Effects on fertility : Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

Remarks: No effect on the growth was observed.



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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Substance key: SC0000107388 Revision Date: 05/02/2017 Version: 4 - 1 / USA Date of printing:07/07/2017

Persistence and degradability

Product:

Biodegradability Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Additional ecological

information

According to experience and to the information currently

available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste Code

: NONE

Waste from residues This product, if discarded as sold, is not a Federal RCRA

> hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

: No -- Not as sold.

No specific requirements. Contaminated packaging

SECTION 14. TRANSPORT INFORMATION

DOT not restricted **IATA** not restricted **IMDG** not restricted



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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Substance key: SC0000107388	Revision Date: 05/02/2017
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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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



BAG DESI PAK® 2U T2 TY-695 3X6 150/PP

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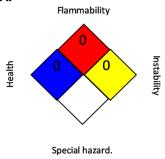
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Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Further information

NFPA:



Revision Date : 05/02/2017

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN



BAG DESI PAK® 4U TY 523 5X5.5

Page 1

Substance key: SC0000107388	Revision Date: 05/15/2015
Version: 4 - 0 / USA	Date of printing :05/22/2015

SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: BAG DESI PAK® 4U TY 523 5X5.5

 Material number:
 254255

 CAS number:
 1302-78-9

Chemical family: Synonyms: Bentonite, sodian; Bentonite, calcian; Montmorillonite.

Desiccant clay packed in desiccant bags.

Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture • Substance

Chemical nature • Synonyms: Bentonite, sodian; Bentonite, calcian;

Montmorillonite. Desiccant clay packed in desiccant bags. Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Hazardous components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).



BAG DESI PAK® 4U TY 523 5X5.5

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Substance key: SC0000107388	Revision Date: 05/15/2015
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SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop. If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms and effects, both acute and

delayed

: The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

None known.



BAG DESI PAK® 4U TY 523 5X5.5

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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.

SECTION 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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required. Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

: Store in a dry place.

Store in a dry place.

Materials to avoid : No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



BAG DESI PAK® 4U TY 523 5X5.5

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All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m3 for

respirable fraction and 15 mg/m3 for total dust. ACGIH exposure guidelines of less than 3 mg/m3 (respirable)

and 10 mg/m3 (inhalable) have been established for particles (insoluble/poorly soluble) not otherwise

specified (PNOS).

Engineering measures : Use ventilation adequate to keep exposures below

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10



BAG DESI PAK® 4U TY 523 5X5.5

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 Substance key: SC0000107388
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Upper explosion limit : Not applicable

Lower explosion 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/cm³

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)

Method: Directive 84/449/EEC, A.6

Partition coefficient: n-

octanol/water

: Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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



BAG DESI PAK® 4U TY 523 5X5.5

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Substance key: SC0000107388	Revision Date: 05/15/2015
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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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



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Result: negative

Carcinogenicity

Product:

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

OSHA Not listed
Not listed

NTP Not listed

Reproductive toxicity

Product:

Effects on fertility

Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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



BAG DESI PAK® 4U TY 523 5X5.5

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 Substance key: SC0000107388
 Revision Date: 05/15/2015

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 Date of printing: 05/22/2015

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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

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.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among : Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: Remarks: The substance does not meet the criteria for PBT or

vPvB substance.

Additional ecological

information

: According to experience and to the information currently available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

: No -- Not as sold.

Conservation and Recovery Authorization Act



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 Substance key: SC0000107388
 Revision Date: 05/15/2015

 Version: 4 - 0 / USA
 Date of printing: 05/22/2015

Waste Code : NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA

hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

Contaminated packaging : No specific requirements.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)



BAG DESI PAK® 4U TY 523 5X5.5

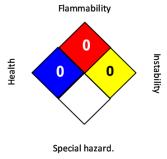
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



Revision Date : 05/15/2015

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

US / USA

BAG DESI PAK® 8U T2 TY-565 5X8 300/D

 Substance key: SC0000107388
 Revision Date: 05/15/2015

 Version: 4 - 0 / USA
 Date of printing: 05/30/2015

SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: BAG DESI PAK® 8U T2 TY-565 5X8 300/D

1302-78-9

Material number: 248787

Chemical family: Synonyms: Bentonite, sodian; Bentonite, calcian; Montmorillonite.

Desiccant clay packed in desiccant bags.

Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

CAS number:

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture • Substance

Chemical nature • Synonyms: Bentonite, sodian; Bentonite, calcian;

Montmorillonite. Desiccant clay packed in desiccant bags. Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Hazardous components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Substance key: SC0000107388 Revision Date: 05/15/2015 Version : 4 - 0 / USA Date of printing :05/30/2015

SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

> fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop. If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the evelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms and effects, both acute and

delayed

: The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

: Treat symptomatically. Notes to physician

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

None 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

SAFETY DATA SHEET BAG DESI PAK® 8U T2 TY-565 5X8 300/D

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connection with water.

SECTION 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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required. Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

: Store in a dry place.

Store in a dry place.

Materials to avoid : No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m3 for

respirable fraction and 15 mg/m3 for total dust. ACGIH exposure guidelines of less than 3 mg/m3

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(respirable)

and 10 mg/m3 (inhalable) have been established for particles (insoluble/poorly soluble) not

otherwise

specified (PNOS).

Engineering measures : Use ventilation adequate to keep exposures below

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Upper explosion limit : Not applicable

Lower explosion limit : non explosive (void of any chemical structures commonly

associated with explosive properties)

Vapour pressure : not applicable (solid with a melting point > 450 °C)

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Relative vapour density : Not applicable

Density : 2.6 g/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)

Method: Directive 84/449/EEC, A.6

Partition coefficient: n-

octanol/water

: Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

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Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

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OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:

Effects on fertility

Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

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Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

(Zea mays): 84.4 mg/kg

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.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among : Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: Remarks: The substance does not meet the criteria for PBT or

vPvB substance.

Additional ecological

information

: According to experience and to the information currently available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource : No -- Not as sold.

Conservation and Recovery

Authorization Act

Waste Code : NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA

hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

Contaminated packaging : No specific requirements.

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DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

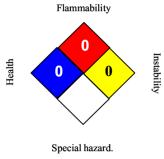
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NFPA:



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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

US / USA

BAG DESI PAK® 16U TY-532 5¾X10 150/D NHT

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SECTION 1. IDENTIFICATION

Identification of the Clariant Corporation

company: 4000 Monroe Road

Charlotte, NC, 28205

Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: BAG DESI PAK® 16U TY-532 5%X10 150/D NHT

1302-78-9

Material number: 254238

Chemical family: Synonyms: Bentonite, sodian; Bentonite, calcian; Montmorillonite.

Desiccant clay packed in desiccant bags.

Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Primary product use: Desiccant

Restrictions on use: There are no uses advised against.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

CAS number:

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture • Substance

Chemical nature • Synonyms: Bentonite, sodian; Bentonite, calcian;

Montmorillonite. Desiccant clay packed in desiccant bags. Bentonite is a UVCB substance, sub-type 4. The purity of the

product is 100 % w/w.

Impurities are not applicable for a UVCB substance.

Hazardous components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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SECTION 4. FIRST AID MEASURES

General advice : No known delayed effects. Consult a physician for all

exposures except for minor instances.

If inhaled : INHALATION: If exposed to excessive levels of dust or

> fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop. If you feel unwell, seek medical advice (show the label where

possible).

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Use a mild soap if available.

In case of eye contact : Do not rub affected area.

Rinse immediately with plenty of lukewarm water, also under

the evelids, for at least 15 minutes.

Obtain medical attention.

If swallowed : Normally not needed. If whole canisters or sachets are

ingested, call a physician or your local Poison Control Center

(1-800-222-1222 in the United States).

Most important symptoms and effects, both acute and

delayed

: The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

: Treat symptomatically. Notes to physician

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

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.

None 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

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connection with water.

SECTION 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.

Wearing appropriate personal protective equipment, contain

spill and collect into a suitable container.

No special precautions required. Refer to Section 8 for more information.

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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use of proper hygiene practices in the workplace is

recommended.

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.

Technical

measures/Precautions

: Store in a dry place.

Store in a dry place.

Materials to avoid : No conditions to be specially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m3 for

respirable fraction and 15 mg/m3 for total dust. ACGIH exposure guidelines of less than 3 mg/m3

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(respirable)

and 10 mg/m3 (inhalable) have been established for particles (insoluble/poorly soluble) not

otherwise

specified (PNOS).

Engineering measures : Use ventilation adequate to keep exposures below

recommended exposure limits. See the safety datasheet.

Personal protective equipment

Respiratory protection : Use local exhaust if dusting occurs. Good general

ventaliation is adequate in the absence of dusts.

Hand protection

Remarks : Wear protective gloves. Wash thoroughly after handling.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : lumpy, granular, powder

Colour : bright to earthy

Odour : none

Odour Threshold : not determined

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

Method: EU A.10

Upper explosion limit : Not applicable

Lower explosion limit : non explosive (void of any chemical structures commonly

associated with explosive properties)

Vapour pressure : not applicable (solid with a melting point > 450 °C)

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Relative vapour density : Not applicable

Density : 2.6 g/cm3

Bulk density : 500 - 1,100 kg/m3For detail information please refer to our

physical & chemical data sheet.

Solubility(ies)

Water solubility : < 0.9 g/l (20 °C)

Method: Directive 84/449/EEC, A.6

Partition coefficient: n-

octanol/water

: Not applicable inorganic

Auto-ignition temperature : not determined

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not applicable (solid with a melting point > 450 °C)

Viscosity, kinematic : Not applicable

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)

SECTION 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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Ingestion

Acute toxicity

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Product:

Acute oral toxicity : LD50 (Rat): > 2 g/kg

Method: OECD Test Guideline 420

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Bentonite is almost insoluble and has a low absorption

through the skin.

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: no data available

Bentonite is considered not to be a skin sensitizer based on experience in handling and low

absorption through the skin.

Germ cell mutagenicity

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

Carcinogenicity

Product:

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

IARC Not listed

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OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:

Effects on fertility

Remarks: Based on available data, the classification criteria

are not met.

STOT - single exposure

Product:

Remarks: No organ toxicity observed in acute tests.

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

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 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 : EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 100 mg/l Exposure time: 72 h

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Plant toxicity : (Phaseolus vulgaris): 84.4 mg/kg

Remarks: No effect on the growth was observed.

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(Zea mays): 84.4 mg/kg

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.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Not relevant for inorganic substances

Mobility in soil

Product:

Distribution among : Medium: Soil

environmental compartments Remarks: Bentonite is almost insoluble and thus presents a

low mobility in most soils.

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: Remarks: The substance does not meet the criteria for PBT or

vPvB substance.

Additional ecological

information

: According to experience and to the information currently available, the product has no harmful effects on the

environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource : No -- Not as sold.

Conservation and Recovery

Authorization Act

Waste Code : NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA

hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal

regulations.

Contaminated packaging : No specific requirements.

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DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product is not subject to SARA Title III Section 313

reporting requirements under 40 CFR 372.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from

listing on the United States Environmental Protection Agency

Toxic Substances Control Act (TSCA) Inventory.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

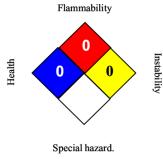
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US / USA