SAFETY DATA SHEET



1. Identification

Product identifier CHAREX® 44PSS

Other means of identification None.

Recommended use Not available.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nanocor, an MTI Company

Address 2870 Forbs Avenue

Hoffman Estates, IL 60192

United States

Telephone General Information 888 NANO-633

Website http://www.nanocor.com/
E-mail safetydata@amcol.com

Emergency phone number

Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 Access Code 333562,

(Available 24 hours a day. SDS/Product information may not be available for the

Emergency Services.)

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement Not available.

Precautionary statement

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Constituents

Chemical name	CAS number	%
CALCIUM CARBONATE	471-34-1	
SMECTITE GROUP MINERALS	1318-93-0	
QUARTZ	14808-60-7	<= 8
CRISTOBALITE	14464-46-1	<= 2

Material name: CHAREX® 44PSS

7206 Version #: 05 Revision date: 15-December-2015 Print date: 15-December-2015

Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w. Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.

Composition comments

The purity of the product is 100% w/w. Impurities are not applicable for a UVCB substance.

4. First-aid measures

Inhalation No specific first aid measures noted. Move to fresh air. Call a physician if symptoms develop or

persist.

Skin contact No specific first aid measures noted. Wash skin with soap and water. Get medical attention if

irritation develops and persists.

Dust in the eyes will cause irritation.

Eye contact No specific first aid measures noted. Flush thoroughly with water. If irritation occurs, get medical

assistance.

Ingestion No specific first aid measures noted. Rinse mouth thoroughly. Get medical attention if any

discomfort occurs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically.

No hazards which require special first aid measures. Provide general supportive measures and

treat symptomatically.

Not assigned.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

The product is combustible, but not flammable.

Use any media suitable for the surrounding fires.

equipment None known.

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Material can be slippery when wet. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces,

SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

Methods and materials for containment and cleaning up Environmental precautions

Avoid the generation of dusts during clean-up. Collect powder using special dust vacuum cleaner

with particle filter or carefully sweep into closed container.

No special environmental precautions required. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Store in a dry area. Keep the container dry. No special restrictions on storage with other products.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contan Constituents	ninants (29 CFR 1910.1000) Type	Value	Form
INERT OR NUISANCE DUSTS	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)		M.I.	F
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	5 mg/m3	Respirable fraction.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Constituents	Туре	Value	Form
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear dust-resistant safety goggles where there is danger of eye contact.

Skin protection

Hand protection No protection is ordinarily required under normal conditions of use.

Other No special protective equipment required. Normal work clothing (long sleeved shirts and long

pants) is recommended.

Exposure Limit.

Thermal hazards Not applicable.

General hygiene Use good industrial hygiene practices in handling this material.

considerations

9. Physical and chemical properties

Appearance Powder.

Physical state Solid Surface Treated Organoclay.

Form Granular.
Color Grey to white.

Odor None.

Odor threshold Not applicable.

pH 6.5 - 7

Melting point/freezing point > 842 °F (> 450 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) This product is not flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

(%)

Not applicable.

Flammability limit - upper (%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not applicable.

Vapor density Not applicable.

Relative density 2.6 g/cm³

Solubility(ies)

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable.

(n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

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> 932 °F (> 500 °C) **Decomposition temperature** Not applicable. Viscosity Viscosity temperature Not applicable.

Other information

Bulk density 0.9 - 1.4 g/cm³ Not applicable. **Explosive limit** Not explosive **Explosive properties** Not applicable. **Explosivity** Flame extension Not applicable. **Flammability** Not applicable. Flammability (flash back) Not applicable. Flammability (Heat of Not applicable.

combustion)

Not applicable. Flammability (Train fire) Flammability class Not applicable. Flash point class Not flammable **UVCB** Substance Molecular formula Molecular weight Not applicable.

Oxidizing properties None. 0 % Percent volatile Specific gravity 1.9

VOC (Weight %) 0 % estimated

CARB

10. Stability and reactivity

Not available. Reactivity

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Moisture. Ignition sources.

Incompatible materials None known.

Hazardous decomposition

products

None.

11. Toxicological information

Information on likely routes of exposure

Inhalation Not classified. Inhalation of dusts may cause respiratory irritation.

Skin contact Not classified.

Eye contact Not classified. Dust in the eyes will cause irritation.

Ingestion Not classified. Symptoms related to the None known.

physical, chemical and toxicological characteristics

Information on toxicological effects

Not classified. Skin corrosion/irritation

Serious eye damage/eye

irritation

Not classified. Mild irritant to eyes (according to the modified Kay & Calandra criteria)

Respiratory or skin sensitization

Respiratory sensitization Not classified. Not classified. Skin sensitization Germ cell mutagenicity Not classified.

Carcinogenicity

Material name: CHAREX® 44PSS SDS US

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity Specific target organ toxicity -

Not classified. Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
CHAREX® 44PSS			
Aquatic			
Algae	EC50	Freshwater algae	> 100 mg/l, 72 hours
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hours
Fish	LC50	Freshwater fish	16000 mg/l, 96 hours
		Marine water fish	2800 - 3200 mg/l, 24 hours

Persistence and degradability

Not relevant for inorganic substances

Bioaccumulative potential

Will not bio-accumulate.

Mobility in soil

Bentonite is almost insoluble and thus presents a low mobility in most soils.

Mobility in general

The product has poor water-solubility.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated. Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging

Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Country(s) or region

International Inventories

		· · · · · · · · · · · · · · · · · · ·
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

16. Other information, including date of preparation or last revision

Inventory name

Issue date13-November-2014Revision date15-December-2015

Version # 05

Further information This safety datasheet only contains information relating to safety and does not replace any product

information or product specification.

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

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On inventory (yes/no)*

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA ratings Health: 0

Flammability: 0 Instability: 0

List of abbreviations

SWERF = Size-Weighted Relevant Fine Fraction methodology is a scientific method developed to quantify the content of respirable particles within a bulk product. All details about the SWERF method are available at www.crientilinesiling.ou

method are available at www.crystallinesilica.eu.

UVCB = a substance of Unknown or Variable composition, Complex reaction products or

Biological materials

References For any information on literature references or toxicity/ecotoxicity studies, please contact the

supplier.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.

Revision Information Ecological Information: Ecotoxicity

HazReg Data: Europe - EU

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