

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/28/2017

Reviewed on 02/28/2017

## \* 1 Identification

- **Product Identifier**
- **Trade name:** MCM-SS3 Combo Pack
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** 20 Pack assortment Polymer Clay Cane
- **Application of the substance / the mixture:** Industry Specific Application
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Penn State Industries  
9900 Global Road  
Philadelphia, PA 19115  
polyclay@pennstateind.com  
www.pennstateind.com
- **Emergency telephone number:** 215-676-7606

## \* 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Carc. 2      H351 Suspected of causing cancer.  
Repr. 1      H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Bis(2-Ethylhexyl) Phthalate
- **Hazard statements:**  
H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.
- **Precautionary statements:**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

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P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

### · **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

### · **NFPA ratings (scale 0 - 4)**



### · **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### · **Hazard(s) not otherwise classified (HNOC):** None known

## \* 3 Composition/Information on Ingredients

### · **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

### · **Dangerous Components:**

CAS: 9002-86-2 RTECS: KV0350000	Polyvinyl chloride ⚠ STOT SE 3, H335	25-50%
CAS: 471-34-1 RTECS: EV 9580000	Calcium Carbonate	5-10%
CAS: 7631-86-9	Silicon Dioxide ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	≤ 2.5%
CAS: 117-81-7 RTECS: TI 0350000	Bis(2-Ethylhexyl) Phthalate ⚠ Carc. 2, H351; Repr. 1B, H360	≤ 2.5%

### · **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

## \* 4 First-Aid Measures

### · **Description of first aid measures:**

### · **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

Avoid fumes

### · **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

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- **After eye contact:**

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

- **After swallowing:** If swallowed and symptoms occur, consult a doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### \* 5 Fire-Fighting Measures

- **Extinguishing media:**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture:** No further relevant information available.

- **Advice for firefighters:** Do not allow product to come into contact with open flame

- **Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.

- **Environmental precautions:** No special measures required.

- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

9002-86-2	Polyvinyl chloride	3 mg/m3
471-34-1	Calcium Carbonate	45 mg/m3
7631-86-9	Silicon Dioxide	18 mg/m3
117-81-7	Bis(2-Ethylhexyl) Phthalate	10 mg/m3

- **PAC-2:**

9002-86-2	Polyvinyl chloride	33 mg/m3
471-34-1	Calcium Carbonate	210 mg/m3
7631-86-9	Silicon Dioxide	740 mg/m3
117-81-7	Bis(2-Ethylhexyl) Phthalate	1,000 mg/m3

- **PAC-3:**

9002-86-2	Polyvinyl chloride	200 mg/m3
471-34-1	Calcium Carbonate	1,300 mg/m3
7631-86-9	Silicon Dioxide	4,500 mg/m3
117-81-7	Bis(2-Ethylhexyl) Phthalate	6,100 mg/m3

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### \* 7 Handling and Storage

- **Handling**

- **Precautions for safe handling:**

Avoid creating and breathing dust/fume/gas/mist/vapors/spray.

Ensure good ventilation/exhaustion at the workplace.

Do not heat above 175C.

Do not allow product to come into contact with open flame, hot knife, or wire.

Use over thermometer when hardening.

Do not use microwave.

Do not overheat - overheating causes harmful vapors (hydrogen chloride vapor)

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities:**

- **Storage**

- **Requirements to be met by storerooms and receptacles:** Keep material dry.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s):** No further relevant information available.

### \* 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters:**

- **Components with occupational exposure limits:**

#### 9002-86-2 Polyvinyl chloride

TLV	Long-term value: 1* mg/m <sup>3</sup> *as respirable fraction
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#### 471-34-1 Calcium Carbonate

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
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REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
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TLV	TLV withdrawn
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#### 7631-86-9 Silicon Dioxide

ACGH	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>
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IDLH	Short-term value: 3000 mg/m <sup>3</sup> Long-term value: 4 E mg/m <sup>3</sup> IDLH: Immediately dangerous to life or health
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TWA	Short-term value: 6 mg/m <sup>3</sup> Long-term value: 4 E mg/m <sup>3</sup>
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#### 117-81-7 Bis(2-Ethylhexyl) Phthalate

PEL	Long-term value: 5 mg/m <sup>3</sup>
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REL	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> See Pocket Guide App. A
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TLV	Long-term value: 5 mg/m <sup>3</sup>
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing and wash before reuse.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the skin.  
 Avoid contact with the eyes and skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

- **Material of gloves:** Not applicable
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Not required.

## \* 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Solid
  - Color:** Various colors
- **Odor:** Recognizable
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
  - Melting point/Melting range:** Not determined.
  - Boiling point/Boiling range:** Not determined.
- **Flash point:** None
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** 450 °C (842 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:**
  - Relative density:** Not determined.
  - Vapor density:** Not applicable.
  - Evaporation rate:** Not applicable.

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**Trade name: MCM-SS3 Combo Pack**

· **Solubility in / Miscibility with:**

**Water:** Insoluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

· **Solvent content:**

**Organic solvents:** 45.0 %

**VOC content:** 45.0 %

· **Other information:** No further relevant information available.

### 10 Stability and Reactivity

· **Reactivity:**

Overheating over hardening polymer clays will result in blackening and release of irritating gases including hydrogen chloride vapor.

· **Chemical stability:** Stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions:** No dangerous reactions known.

· **Conditions to avoid:** Overheating - Do not heat above 175C.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

### \* 11 Toxicological Information

· **Information on toxicological effects:**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**9002-86-2 Polyvinyl chloride**

Oral	LD50	210 mg/kg (Rat)
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**471-34-1 Calcium Carbonate**

Oral	LD50	6450 mg/kg (Rat)
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**7631-86-9 Silicon Dioxide**

Oral	LD50	10000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	>140->2000 mg/l (Rat) (OCED 403)
		Maximum attainable concentration, mortality does not appear.
		10000 mg/l (Zebra fish) (OECD 203)

**117-81-7 Bis(2-Ethylhexyl) Phthalate**

Oral	LD50	30600 mg/kg (Rat)
Dermal	LD50	25000 mg/kg (Rabbit)
Inhalative	LC50/96 hours	>0.32 mg/l (Trout)
		>0.67 mg/l (Fathead Minnow)

· **Primary irritant effect:**

· **On the skin:** Irritant to skin and mucous membranes.

· **On the eye:** No irritating effect.

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### Trade name: MCM-SS3 Combo Pack

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans

9002-86-2	Polyvinyl chloride	3
7631-86-9	Silicon Dioxide	3
117-81-7	Bis(2-Ethylhexyl) Phthalate	2B

· **NTP (National Toxicology Program):**

117-81-7	Bis(2-Ethylhexyl) Phthalate	R
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· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### \* 12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

<b>7631-86-9 Silicon Dioxide</b>	
EC50	>1000 mg/l (Daphnia) (OECD 202)

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Not known to be hazardous to water.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

### \* 13 Disposal Considerations

· **Waste treatment methods:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

· **UN-Number:**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

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**Trade name: MCM-SS3 Combo Pack**

- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

**\* 15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt from listing.

· **California Proposition 65:**· **Chemicals known to cause cancer:**

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **Chemicals known to cause developmental toxicity:**

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **New Jersey Right-to-Know List:**

9002-86-2 Polyvinyl chloride

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **New Jersey Special Hazardous Substance List:**

117-81-7 Bis(2-Ethylhexyl) Phthalate

CA, TE

· **Pennsylvania Right-to-Know List:**

7631-86-9 Silicon Dioxide

117-81-7 Bis(2-Ethylhexyl) Phthalate

· **Pennsylvania Special Hazardous Substance List:**

117-81-7 Bis(2-Ethylhexyl) Phthalate

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· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

117-81-7	Bis(2-Ethylhexyl) Phthalate	B2
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· **TLV (Threshold Limit Value established by ACGIH):**

9002-86-2	Polyvinyl chloride	A4
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117-81-7	Bis(2-Ethylhexyl) Phthalate	A3
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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

117-81-7	Bis(2-Ethylhexyl) Phthalate
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· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Bis(2-Ethylhexyl) Phthalate

· **Hazard statements:**

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

· **Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 02/28/2017 / 5

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety & Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
Carc. 2: Carcinogenicity – Category 2  
Carc. 2: Carcinogenicity – Category 2  
Repr. 1: Reproductive toxicity – Category 1  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

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