# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

**PRODUCT IDENTIFIER**: Prepared and Pugged Clays  
**PRODUCT USE**: Ceramic Modelling and Sculpture  
**PRODUCT IDENTIFICATION NUMBER (PIN)**: M3255 Buffstone

<table>
<thead>
<tr>
<th>Supplier's Name</th>
<th>Address</th>
<th>City</th>
<th>Province</th>
<th>Postal Code</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

## SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>%</th>
<th>CAS NUMBER</th>
<th>LD₅₀ OF INGREDIENT</th>
<th>LC₅₀ OF INGREDIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>FREE SILICA (Quartz) (Respirable)</em></td>
<td>15-20</td>
<td>14808-60-7</td>
<td>NOT AVAILABLE</td>
<td>NOT AVAILABLE</td>
</tr>
</tbody>
</table>

*FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

SEE ATTACHED: None.

## SECTION 3 - PHYSICAL DATA

**PHYSICAL STATE**: SOLID  
**ODOUR AND APPEARANCE**: Grey colour with slight earthy odour.

**PHYSICAL PROPERTIES NOT APPLICABLE**:
- Odour Threshold
- Vapour Pressure
- Density
- Evaporation Rate
- Boiling Point
- Freezing Point
- pH
- Specific Gravity
- Coeff. Water/Oil Dist.

## SECTION 4 - FIRE AND EXPLOSION DATA

**FLAMMABILITY**: YES ☑ NO ☐ CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

**NON-APPLICABLE DATA**:
- Means of Extinction
- Flashpoint and Method
- Ignition Temperature
- Upper Flammable Limit
- Lower Flammable Limit
- Hazardous Combustion Products
- Sensitivity to Impact
- Sensitivity to Static Discharge

**PRODUCTS OF DECOMPOSITION DURING KILN BURNING**
- Carbon Monoxide
- Carbon Dioxide
- Possible traces of Sulfur Dioxide
- Vent Kiln during burning.

## SECTION 5 - REACTIVITY DATA

**CHEMICAL STABILITY**: YES ☑ NO ☐ CONDITIONS OF INSTABILITY: None.

**INCOMPATIBILITY WITH OTHER SUBSTANCES**: YES ☑ NO ☐ INCOMPATIBLE SUBSTANCES: None.

**REACTIVITY, AND UNDER WHAT CONDITIONS**: Inert and Non-Reactive.

**HAZARDOUS DECOMPOSITION PRODUCTS**: WILL NOT OCCUR
SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
- ☐ SKIN CONTACT
- ☐ SKIN ABSORPTION
- ☐ EYE CONTACT
- ☒ INHALATION
- ☐ INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A NUISANCE DUST. SEE CHRONIC EFFECTS

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
LONG TERM EXPOSURE TO RESPIRABLE FREE SILICA IN CONCENTRATIONS HIGHER THAN RECOMMENDED TLV MAY CAUSE LUNG INJURY.

EXPOSURE LIMITS
TLV = 1 MG/M³ RESPIRABLE DUST

IRRITANTY OF PRODUCT
MECHANICAL IRRITANT ONLY

SYNERGISTIC PRODUCTS
TOBACCO SMOKE MAY INCREASE LUNG DAMAGE

NON APPLICABLE PROPERTIES:
Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (Specify) NOT REQ'D
RESPIRATOR (Specify) APPROVED RESPIRATOR WHERE TLV IS EXCEEDED
FOOTWEAR (Specify) NOT REQ'D
CLOTHING (Specify) NOT REQ'D
ENGINEERING CONTROLS (Specify) LOCAL EXHAUST OR OTHER VENTILATION THAT WILL REDUCE DUST CONCENTRATION TO LESS THAN PERMISSIBLE EXPOSURE LIMITS IS RECOMMENDED

EYE (Specify) SAFETY GLASSES FOR COMFORT ONLY
OTHER (Specify) NONE

LEAK AND SPILL PROCEDURE
IF CLAY IS MOIST, NO SPECIAL PRECAUTIONS REQUIRED. IF DRY, CLEAN UP AND COLLECT, MINIMIZING EXCESSIVE DUST GENERATION.

WASTE DISPOSAL BY APPROVED METHOD

HANDLING PROCEDURES AND EQUIPMENT
IF CLAY IS DRY, CONTROLS SHOULD BE USED TO MAINTAIN "FREE" SILICA DUST EXPOSURE LEVELS BELOW TLV.

STORAGE REQUIREMENTS NO SPECIAL REQUIREMENTS

SPECIAL SHIPPING INFORMATION NOT REQUIRED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES

SKIN - WASH WITH WATER
EYES - FLUSH WITH RUNNING WATER UNTIL MATERIAL IS REMOVED

SECTION 9 - PREPARATION DATA OF MSDS

PREPARED BY: Plainsman Clays Limited
PHONE NUMBER: (403) 527-8535
DATE: May 1, 1992

FURTHER PHYSICAL PROPERTIES AND DESCRIPTIVE LITERATURE AVAILABLE ON REQUEST.
**SECTION 1 - PRODUCT IDENTIFICATION AND USE**

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<tr>
<th>PRODUCT IDENTIFIER</th>
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<tbody>
<tr>
<td>USE</td>
<td>Modelling and Sculpture.</td>
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</table>

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<th>H441G, Raku</th>
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**SECTION 2 - HAZARDOUS INGREDIENTS**

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<td>20</td>
<td>14809-60-7</td>
<td>NOT AVAILABLE</td>
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SEE ATTACHED: None

NOTES:
* FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

**SECTION 3 - PHYSICAL DATA**

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<th>PHYSICAL STATE</th>
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ODOUR AND APPEARANCE
Black with slight earthy odour.

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLAMMABILITY

<table>
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<tr>
<th>YES</th>
<th>NO</th>
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</table>

CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

NON-APPLICABLE DATA:

Means of Extinction, Flashpoint and Method, Autoignition Temperature, Upper Flammable Limit, Lower Flammable Limit, Hazardous Combustion Products, Sensitivity to Impact, Sensitivity to Static Discharge

PRODUCTS OF DECOMPOSITION DURING KILN BURNING

CARRON MONOXIDE, CARBON DIOXIDE AND POSSIBLE TRACES OF SULFUR DIOXIDE. VENT KILN DURING BURNING.

**SECTION 5 - REACTIVITY DATA**

<table>
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<tr>
<th>CHEMICAL STABILITY</th>
<th>YES</th>
<th>NO</th>
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</thead>
</table>

CONDITIONS OF INSTABILITY
None.

INCOMPATIBILITY WITH OTHER SUBSTANCES

<table>
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<th>YES</th>
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</table>

INCOMPATIBLE SUBSTANCES
None.

REACTIVITY, AND UNDER WHAT CONDITIONS
Inert and Non-Reactive.

HAZARDOUS DECOMPOSITION PRODUCTS WILL NOT OCCUR
SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: ☐ SKIN CONTACT ☐ SKIN ABSORPTION ☐ EYE CONTACT ☐ INHALATION ☐ INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: A nuisance dust. See chronic effects

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

LONG TERM EXPOSURE TO RESPIRABLE FREE SILICA IN CONCENTRATIONS HIGHER THAN RECOMMENDED TLV MAY CAUSE LUNG INJURY.

EXPOSURE LIMITS: TLV = 1 mg/m³ RESPIRABLE DUST

IRRITANT OF PRODUCT: MECHANICAL IRRITANT ONLY

SYNERGISTIC PRODUCTS:

TOBACCO SMOKE MAY INCREASE LUNG DAMAGE

NON APPLICABLE PROPERTIES:

Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (Specify) ☐ NOT REQ'D

FOOTWEAR (Specify) ☐ NOT REQ'D

ENGINEERING CONTROLS (Specify) LOCAL EXHAUST OR OTHER VENTILATION THAT WILL REDUCE DUST CONCENTRATION TO LESS THAN PERMISSIBLE EXPOSURE LIMITS IS RECOMMENDED

LEAK AND SPILL PROCEDURE

IF CLAY IS MOIST, NO SPECIAL PRECAUTIONS REQUIRED. IF DRY, CLEAN UP AND COLLECT, MINIMIZING EXCESSIVE DUST GENERATION.

WASTE DISPOSAL

BY APPROVED METHOD

HANDLING PROCEDURES AND EQUIPMENT

IF CLAY IS DRY, CONTROLS SHOULD BE USED TO MAINTAIN "FREE" SILICA DUST EXPOSURE LEVELS BELOW TLV.

STORAGE REQUIREMENTS

NO SPECIAL REQUIREMENTS

SPECIAL SHIPPING INFORMATION

NOT REQUIRED

SECTION 8: FIRST AID MEASURES

SPECIFIC MEASURES

SKIN - WASH WITH WATER
EYES - FLUSH WITH RUNNING WATER UNTIL MATERIAL IS REMOVED

SECTION 9: PREPARATION DATA OF MSDS

PREPARED BY: Plainsman Clays Limited
PHONE NUMBER: (403) 527-8535
DATE: May 1, 1992

FURTHER PHYSICAL PROPERTIES AND DESCRIPTIVE LITERATURE AVAILABLE ON REQUEST.
MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Prepared and Pugged Clays

PRODUCT USE: Ceramic Modelling and Sculpture.

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS % CAS NUMBER LD₅₀ OF INGREDIENT LC₅₀ OF INGREDIENT
‘FREE SILICA (QUARTZ)(Respirable) 15-20 14808-60-7 NOT AVAILABLE NOT AVAILABLE

SEE ATTACHED: None.

NOTES:
* FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: SOLID

ODOUR AND APPEARANCE:
Dark brown colour with slight earthy odour.

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY
YES ☐ NO ☑ CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

NON-APPLICABLE DATA:
None.

PRODUCTS OF DECOMPOSITION DURING KILN BURNING
CARBON MONOXIDE, CARBON DIOXIDE AND POSSIBLE TRACES OF SULFUR DIOXIDE. VENT KILN DURING BURNING.

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY
YES ☐ NO ☑ CONDITIONS OF INSTABILITY
None.

INCOMPATIBILITY WITH OTHER SUBSTANCES
YES ☐ NO ☑ INCOMPATIBLE SUBSTANCES
None.

REACTIVITY, AND UNDER WHAT CONDITIONS
Inert and Non-Reactive. 

HAZARDOUS DECOMPOSITION PRODUCTS WILL NOT OCCUR
SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: ❑ Skin Contact    ❑ Skin Absorption    ❑ Eye Contact    ❑ Inhalation    ❑ Ingestion

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A nuisance dust. See chronic effects

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
Long term exposure to respirable free silica in concentrations higher than recommended TLV may cause lung injury.

EXPOSURE LIMITS
TLV = 1 mg/m³ respirable dust

INHALATION OF PRODUCT
Mechanical irritant only

NON APPLICABLE PROPERTIES:
Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves (Specify)    Not Req'd

Footwear (Specify)   Not Req'd

Engineering Controls (Specify) Local exhaust or other ventilation that will reduce dust concentration to less than permissible exposure limits is recommended

Respirator (Specify) Approved Respirator where TLV is exceeded

Clothing (Specify)   Not Req'd

Eye (Specify)        Safety Classes for Comfort Only

OTHER (Specify)      None

LEAK AND SPILL PROCEDURE
If clay is moist, no special precautions required. If dry, clean up and collect, minimizing excessive dust generation.

WASTE DISPOSAL
By approved method

HANDLING PROCEDURES AND EQUIPMENT
If clay is dry, controls should be used to maintain "free" silica dust exposure levels below TLV.

STORAGE REQUIREMENTS
No special requirements

SPECIAL SHIPPING INFORMATION
Not Required

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES
Skin - Wash with water
Eyes - flush with running water until material is removed

SECTION 9 - PREPARATION DATA OF MSDS

Prepared by: Plainsman Clays Limited
Phone Number: (403) 527-8535
Date: May 1, 1992

Further physical properties and descriptive literature available on request.
MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Prepared and Pugged Clays
USE: Ceramic Modelling and Sculpture.

SECTION 2 - HAZARDOUS INGREDIENTS

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<th>HAZARDOUS INGREDIENTS</th>
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<td>14808-60-7</td>
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SEE ATTACHED: None.

NOTES: *FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: SOLID
ODOUR AND APPEARANCE: Grey colour with slight earthy odour.

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: YES ☐ NO ☒ CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: YES ☐ NO ☒ CONDITIONS OF INSTABILITY: None.

INCOMPATIBILITY WITH OTHER SUBSTANCES: YES ☐ NO ☒ INCOMPATIBLE SUBSTANCES: None.

REACTIONS, AND UNDER WHAT CONDITIONS: Non-Reactive.

HAZARDOUS DECOMPOSITION PRODUCTS: WILL NOT OCCUR.
SECTION 5 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY ☑ SKIN CONTACT ☑ SKIN ABSORPTION ☐ EYE CONTACT ☑ INHALATION ☐ INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A NUISANCE DUST. SEE CHRONIC EFFECTS

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
LONG TERM EXPOSURE TO RESPIRABLE FREE SILICA IN CONCENTRATIONS HIGHER THAN RECOMMENDED TLV MAY CAUSE LUNG INJURY.

EXPOSURE LIMITS
TLV = 1 mg/m³ RESPIRABLE DUST

IRRITANT OF PRODUCT
MECHANICAL IRRITANT ONLY

SYNERGISTIC PRODUCTS
TOBACCO SMOKE MAY INCREASE LUNG DAMAGE

NON APPLICABLE PROPERTIES:
Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (Specify) NOT REQ'D
FOOTWEAR (Specify) NOT REQ'D
ENGINEERING CONTROLS (Specify) LOCAL EXHAUST OR OTHER VENTILATION THAT WILL REDUCE DUST CONCENTRATION TO LESS THAN PERMISSIBLE EXPOSURE LIMITS IS RECOMMENDED

RESPIRATOR (Specify) APPROVED RESPIRATOR WHERE TLV IS EXCEEDED CLOTHING (Specify) NOT REQ'D

EYE (Specify) SAFETY GLASSES FOR COMFORT ONLY OTHER (Specify) NONE

LEAK AND SPILL PROCEDURE IF CLAY IS MOIST, NO SPECIAL PRECAUTIONS REQUIRED. IF DRY, CLEAN UP AND COLLECT, MINIMIZING EXCESSIVE DUST GENERATION.

WASTE DISPOSAL By Approved Local Regulations.

HANDLING PROCEDURES AND EQUIPMENT IF CLAY IS DRY, CONTROLS SHOULD BE USED TO MAINTAIN "FREE" SILICA DUST EXPOSURE LEVELS BELOW TLV.

STORAGE REQUIREMENTS NO SPECIAL REQUIREMENTS

SPECIAL SHIPPING INFORMATION NOT REQUIRED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES

SKIN - WASH WITH WATER
EYES - FLOOD WITH RUNNING WATER UNTIL MATERIAL IS REMOVED

SECTION 9 - PREPARATION DATA OF MSDS

PREPARED BY: Plainsman Clays Limited
PHONE NUMBER: (403) 527-8535
DATE: May 1, 1992

FURTHER PHYSICAL PROPERTIES AND DESCRIPTIVE LITERATURE AVAILABLE ON REQUEST.
### MATERIAL SAFETY DATA SHEET

#### SECTION 1 - PRODUCT IDENTIFICATION AND USE

**PRODUCT IDENTIFIER**: Prepared and Rugged Clays

**PRODUCT USE**: Ceramic Modelling and Sculpture.

**PRODUCT IDENTIFICATION NUMBER (PIN)**: H440, H440G, H442, H443, H475

**Supplier's Name**: 

**Address**: 

**City**: 

**Province**: 

**Postal Code**: 

**Phone**: 

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#### SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
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**SEE ATTACHED**: None.

**NOTES**: *FREE SILICA IS NOT HAZARD IN MOIST FORM. ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.*

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#### SECTION 3 - PHYSICAL DATA

**PHYSICAL STATE**: SOLID

**ODOUR AND APPEARANCE**: Brown colour with slight earthy odour.

**PHYSICAL PROPERTIES NOT APPLICABLE**: Odour Threshold, Vapour Pressure & Density, Evaporation Rate, Boiling Point, Freezing Point, pH, Specific Gravity, Coeff. Water/Oil Dist.

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#### SECTION 4 - FIRE AND EXPLOSION DATA

**FLAMMABILITY**: YES [ ] NO [X]

Consider dust as non-flammable and non-explosive.

**NON-APPLICABLE DATA**: Means of Extinction, Flashpoint and Method, Autoignition Temperature, Upper Flammable Limit, Lower Flammable Limit, Hazardous Combustion Products, Sensitivity to Impact, Sensitivity to Static Discharge

**PRODUCTS OF DECOMPOSITION DURING KILN BURNING**: Carbon Monoxide, Carbon Dioxide and possible traces of Sulfur Dioxide. Vent kiln during burning.

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#### SECTION 5 - REACTIVITY DATA

**CHEMICAL STABILITY**: YES [ ] NO [X]

**CONDITIONS OF INSTABILITY**: None.

**INCOMPATIBILITY WITH OTHER SUBSTANCES**: YES [ ] NO [X]

**INCOMPATIBLE SUBSTANCES**: None.

**REACTIVITY, AND UNDER WHAT CONDITIONS**: Non-Reactive.

**HAZARDOUS DECOMPOSITION PRODUCTS**: WILL NOT OCCUR.
SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY  □ SKIN CONTACT  □ SKIN ABSORPTION  □ EYE CONTACT  □ INHALATION  □ INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A nuisance dust. See chronic effects.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
Long term exposure to respirable free silica in concentrations higher than recommended TLV may cause lung injury.

EXPOSURE LIMITS
TLV : 1 mg/m³ respirable dust

IRRITATION OF PRODUCT
Mechanical irritant only

SYNERGISTIC PRODUCTS
Tobacco smoke may increase lung damage

NON APPLICABLE PROPERTIES:
Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

<table>
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<th>GLOVES (Specify)</th>
<th>NOT REQ'D</th>
<th>RESPIRATOR (Specify)</th>
<th>APPROVED RESPIRATOR WHERE TLV IS EXCEEDED</th>
<th>EYE (Specify)</th>
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<td>FOOTWEAR (Specify)</td>
<td>NOT REQ'D</td>
<td>CLOTHING (Specify)</td>
<td>NOT REQ'D</td>
<td>OTHER (Specify)</td>
<td>NONE</td>
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</table>

ENGINEERING CONTROLS (Specify)
Local exhaust or other ventilation that will reduce dust concentration to less than permissible exposure limits is recommended.

LEAK AND SPILL PROCEDURE
If clay is moist, no special precautions required. If dry, clean up and collect, minimizing excessive dust generation.

WASTE DISPOSAL
By Approved Local Regulations.

HANDLING PROCEDURES AND EQUIPMENT
If clay is dry, controls should be used to maintain “free” silica dust exposure levels below TLV.

STORAGE REQUIREMENTS
No special requirements

SPECIAL SHIPPING INFORMATION
Not required

SECTION 8: FIRST AID MEASURES

SPECIFIC MEASURES

SKIN - Wash with water
EYES - Flush with running water until material is removed

SECTION 9: PREPARATION DATA OF MSDS

PREPARED BY: Plainsman Clays Limited
PHONE NUMBER: (403) 527-8535
DATE: May 1, 1992

FURTHER PHYSICAL PROPERTIES AND DESCRIPTIVE LITERATURE AVAILABLE ON REQUEST.
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SEE ATTACHED:

NOTES:
* FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: SOLID

ODOUR AND APPEARANCE:
Grey colour with slight earthy odour.

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY:
YES ☑ NO ☐ CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY:
YES ☑ NO ☐

CONDITIONS OF INSTABILITY:
None.

INCOMPATIBILITY WITH OTHER SUBSTANCES:
YES ☑ NO ☐

INCOMPATIBLE SUBSTANCES:
None.

REACTIVITY, AND UNDER WHAT CONDITIONS:
Inert and Non-Reactive.

HAZARDOUS DECOMPOSITION PRODUCTS:
WILL NOT OCCUR
SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
☐ SKIN CONTACT  ☐ SKIN ABSORPTION  ☐ EYE CONTACT  ☐ INHALATION  ☐ INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A NUISANCE DUST. SEE CHRONIC EFFECTS

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
LONG TERM EXPOSURE TO RESPIRABLE FREE SILICA IN CONCENTRATIONS HIGHER THAN RECOMMENDED TLV MAY CAUSE LUNG INJURY.

EXPOSURE LIMITS
TLC = 1 MG/M³ RESPIRABLE DUST

IRRITANITY OF PRODUCT
NON APPLICABLE

MECHANICAL IRRITANT ONLY

SYNERGISTIC PRODUCTS
TOBACCO SMOKE MAY INCREASE LUNG DAMAGE

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

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ENGINEERING CONTROLS (Specify)
LOCAL EXHAUST OR OTHER VENTILATION THAT WILL REDUCE DUST CONCENTRATION TO LESS THAN PERMISSIBLE EXPOSURE LIMITS IS RECOMMENDED

LEAK AND SPILL PROCEDURE
IF CLAY IS MOIST, NO SPECIAL PRECAUTIONS REQUIRED. IF DRY, CLEAN UP AND COLLECT, MINIMIZING EXCESSIVE DUST GENERATION.

WASTE DISPOSAL
BY APPROVED METHOD

HANDLING PROCEDURES AND EQUIPMENT
IF CLAY IS DRY, CONTROLS SHOULD BE USED TO MAINTAIN "FREE" SILICA DUST EXPOSURE LEVELS BELOW TLV.

STORAGE REQUIREMENTS
NO SPECIAL REQUIREMENTS

SPECIAL SHIPPING INFORMATION
NOT REQUIRED

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES

SKIN - WASH WITH WATER
EYES - FLUSH WITH RUNNING WATER UNTIL MATERIAL IS REMOVED

SECTION 9 - PREPARATION DATA OF MSDS

PREPARED BY: Plainsman Clays Limited
PHONE NUMBER: (403) 527-8535
DATE: May 1, 1992

FURTHER PHYSICAL PROPERTIES AND DESCRIPTIVE LITERATURE AVAILABLE ON REQUEST.
# Material Safety Data Sheet

## Section 1: Product Identification and Use

**Product Identifier:** Prepared and Pugged Clays  
**Product Use:** Ceramic Modelling and Sculpture.

**Product Identification Number (PIN):** L211, L212, M340, M325  
**Suppliers:**
- **Name:** [blank]  
- **Address:** [blank]  
- **City:** [blank]  
- **Province:** [blank]  
- **Postal Code:** [blank]  
- **Phone:** [blank]

## Section 2: Hazardous Ingredients

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>CAS Number</th>
<th>LD₅₀ of Ingredient</th>
<th>LC₅₀ of Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>FREE SILICA (QUARTZ) (Respirable)</em></td>
<td>15-20</td>
<td>14608-60-7</td>
<td>NOT AVAILABLE</td>
<td>NOT AVAILABLE</td>
</tr>
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**See Attached:** None.

**Notes:**
* FREE SILICA IS NOT HAZARD IN MOIST FORM, ONLY A HAZARD IF CLAY IS DRY AND DUST IS GENERATED.

## Section 3: Physical Data

**Physical State:** Solid  
**Physical Properties Not Applicable:**  
- Odour Threshold, Vapour Pressure & Density, Evaporation Rate, Boiling Point, Freezing Point, pH, Specific Gravity, Coeff. Water/Oil Dist.

**Odour and Appearance:** Grey colour with slight earthy odour.

## Section 4: Fire and Explosion Data

**Flammability:** Yes ☐ No ☑  
**Consider Dust as Non-Flammable and Non-Explosive:**

**Non-Applicable Data:**

**Products of Decomposition During Kiln Burning:**  
- Carbon Monoxide, Carbon Dioxide and Possible Traces of Sulphur Dioxide. Vent Kiln During Burning.

## Section 5: Reactivity Data

**Chemical Stability:** Yes ☐ No ☑  
**Conditions of Instability:** None.

**Incompatibility with Other Substances:** Yes ☐ No ☑  
**Incompatible Substances:** None.

**Reactivity, and Under What Conditions:** Inert and Non-Reactive.

**Hazardous Decomposition Products:** Will Not Occur.
SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY  
- Skin Contact  
- Skin Absorption  
- Eye Contact  
- Inhalation  
- Ingestion

EFFECTS OF ACUTE EXPOSURE TO PRODUCT  
A Nuisance Dust. See Chronic Effects

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT  
Long term exposure to respirable free silica in concentrations higher than recommended TLV may cause lung injury.

EXPOSURE LIMITS  
TLV - 1 mg/m³ Respirable Dust
- Irritancy of Product
- Mechanical Irritant Only
- Non Applicable Properties:
  - Sensitization
  - Carcinogenicity
  - Teratogenicity
  - Reproductive Toxicity
  - Mutagenicity

SYNERGISTIC PRODUCTS:
- Tobacco smoke may increase lung damage

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves (Specify)  
- Not Req’d

Footwear (Specify)  
- Not Req’d

Respirator (Specify)  
- Approved
- Respirator where TLV is exceeded

Clothing (Specify)  
- Not Req’d

Eye (Specify)  
- Safety Glasses
- For Comfort Only

Other (Specify)  
- None

Engineering Controls (Specify)  
- Local exhaust or other ventilation that will reduce dust concentration to less than permissible exposure limits is recommended

Leak and Spill Procedure  
- If clay is moist, no special precautions required. If dry, clean up and collect, minimizing excessive dust generation.

Waste Disposal  
- By approved method

Handling Procedures and Equipment  
- If clay is dry, controls should be used to maintain "Free" silica dust exposure levels below TLV.

Storage Requirements  
- No special requirements

Special Shipping Information  
- Not required

SECTION 8 - FIRST AID MEASURES

Specific Measures

Skin - Wash with water
Eyes - Flush with running water until material is removed

SECTION 9 - PREPARATION DATA OF MSDS

Prepared by: Plainsman Clays Limited
Phone Number: (403) 527-8535
Date: May 1, 1992

Further physical properties and descriptive literature available on request.
PLAINS MAN Clays Limited
Box 1266, MEDICINE HAT
Alta. T1A 7M9 Phone (403) 527-8535

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Prepared and Pugged Clays
PRODUCT USE: Ceramic Modelling and Sculpture.

SECTION 2 - HAZARDOUS INGREDIENTS

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SEE ATTACHED: None.

NOTES:
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SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: SOLID
ODOUR AND APPEARANCE: Brown colour with slight earthy odour.

PHYSICAL PROPERTIES NOT APPLICABLE:
- Odour Threshold, Vapour Pressure & Density, Evaporation Rate, Boiling Point, Freezing Point, pH, Specific Gravity, Coeff. Water/Oil Dist.

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: YES ☐ NO ☑

CONSIDER DUST AS NON-FLAMMABLE AND NON-EXPLOSIVE

NON-APPLICABLE DATA:
- Means of Extinction, Flashpoint and Method, Autoignition Temperature.
- Upper Flammable Limit, Lower Flammable Limit, Hazardous Combustion Products.
- Sensitivity to Impact, Sensitivity to Static Discharge

PRODUCTS OF DECOMPOSITION DURING KILN BURNING:
- CARBON MONOXIDE, CARBON DIOXIDE AND POSSIBLE TRACES OF SULFUR DIOXIDE. VENT KILN DURING BURNING.

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: YES ☑ NO ☐

CONDITIONS OF INSTABILITY: None.

INCOMPATIBILITY WITH OTHER SUBSTANCES: YES ☐ NO ☑

INCOMPATIBLE SUBSTANCES: None.

REACTIVITY, AND UNDER WHAT CONDITIONS: Inert and Non-Reactive.

HAZARDOUS DECOMPOSITION PRODUCTS: WILL NOT OCCUR.
SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
- Skin Contact
- Skin Absorption
- Eye Contact
- Inhalation
- Ingestion

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
A nuisance dust. See chronic effects

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
Long term exposure to respirable free silica in concentrations higher than recommended TLV may cause lung injury.

EXPOSURE LIMITS
TLV = 1 mg/m³ respirable dust

IRRITANCY OF PRODUCT
Mechanical irritant only

NON APPLICABLE PROPERTIES:
Sensitization, Carcinogenicity, Teratogenicity, Reproductive Toxicity, Mutagenicity

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

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Respirator (Specify)
Approved respirator when TLV is exceeded

Clothing (Specify)
Not Req'd

Eye (Specify)
Safety glasses for comfort only

OTHER (Specify)
NONE

ENGINEERING CONTROLS (Specify)
Local exhaust or other ventilation that will reduce dust concentration to less than permissible exposure limits is recommended

LEAK AND SPILL PROCEDURE
If clay is moist, no special precautions required. If dry, clean up and collect, minimizing excessive dust generation.

WASTE DISPOSAL
By approved method

HANDLING PROCEDURES AND EQUIPMENT
If clay is dry, controls should be used to maintain "free" silica dust exposure levels below TLV.

STORAGE REQUIREMENTS
No special requirements

SPECIAL SHIPPING INFORMATION
Not required

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES

Skin - Wash with water
Eyes - Flush with running water until material is removed

SECTION 9 - PREPARATION DATA OF MSDS

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