

**SAFETY DATA SHEET**  
**LUG 1 BLACK****1. Identification****Product identifier****Product name** LUG 1 BLACK**Product number** LUG 1 BLACK**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 1 BLACK

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 1 BLACK

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 1 BLACK

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 1 BLACK

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 1 BLACK

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5320

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 10 WHITE****1. Identification****Product identifier****Product name** LUG 10 WHITE**Product number** LUG 10 WHITE**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 10 WHITE

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**



## LUG 10 WHITE

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
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**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 10 WHITE

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact** May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation** Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient** No information available.

**Mobility in soil**

**Mobility** Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 10 WHITE

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 10 WHITE

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5321

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**SAFETY DATA SHEET**  
**LUG 20 LIGHT BLUE****1. Identification****Product identifier****Product name** LUG 20 LIGHT BLUE**Product number** LUG 20 LIGHT BLUE**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 20 LIGHT BLUE

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 20 LIGHT BLUE

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
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**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 20 LIGHT BLUE

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**



## LUG 20 LIGHT BLUE

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

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## LUG 20 LIGHT BLUE

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
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<b>SDS No.</b>	5323

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**SAFETY DATA SHEET**  
**LUG 22 DARK BLUE****1. Identification****Product identifier****Product name** LUG 22 DARK BLUE**Product number** LUG 22 DARK BLUE**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 22 DARK BLUE

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 22 DARK BLUE

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 22 DARK BLUE

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

**11. Toxicological information**

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

**12. Ecological Information**

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 22 DARK BLUE

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

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## LUG 22 DARK BLUE

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5325

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY DATA SHEET**  
**LUG 26 AQUA****1. Identification****Product identifier****Product name** LUG 26 AQUA**Product number** LUG 26 AQUA**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 26 AQUA

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 26 AQUA

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 26 AQUA

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 26 AQUA

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 26 AQUA

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5327

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 30 LIGHT BROWN****1. Identification****Product identifier****Product name** LUG 30 LIGHT BROWN**Product number** LUG 30 LIGHT BROWN**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 30 LIGHT BROWN

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**



## LUG 30 LIGHT BROWN

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 30 LIGHT BROWN

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact** May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation** Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient** No information available.

**Mobility in soil**

**Mobility** Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 30 LIGHT BROWN

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 30 LIGHT BROWN

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5328

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**SAFETY DATA SHEET**  
**LUG 42 BLUE GREEN****1. Identification****Product identifier****Product name** LUG 42 BLUE GREEN**Product number** LUG 42 BLUE GREEN**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 42 BLUE GREEN

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 42 BLUE GREEN

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 42 BLUE GREEN

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

**11. Toxicological information**

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

**12. Ecological Information**

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**



## LUG 42 BLUE GREEN

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

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## LUG 42 BLUE GREEN

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5332

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 43 DARK GREEN****1. Identification****Product identifier****Product name** LUG 43 DARK GREEN**Product number** LUG 43 DARK GREEN**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 43 DARK GREEN

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 43 DARK GREEN

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 43 DARK GREEN

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

**11. Toxicological information**

Information on toxicological effects

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

Skin corrosion/irritation

Skin sensitization

**Skin sensitisation** Based on available data the classification criteria are not met.

Eye contact

May cause temporary eye irritation.

**12. Ecological Information**

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

Toxicity

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

Persistence and degradability

**Persistence and degradability** No data available.

Biodegradation

Not inherently biodegradable.

Bioaccumulative potential

Partition coefficient

No information available.

Mobility in soil

Mobility

Semi-mobile.

Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

## LUG 43 DARK GREEN

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

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## LUG 43 DARK GREEN

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5333

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY DATA SHEET**  
**LUG 51 ROSE****1. Identification****Product identifier****Product name** LUG 51 ROSE**Product number** LUG 51 ROSE**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 51 ROSE

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 51 ROSE

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 51 ROSE

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

**11. Toxicological information**

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact** May cause temporary eye irritation.

**12. Ecological Information**

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation** Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient** No information available.

**Mobility in soil**

**Mobility** Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 51 ROSE

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 51 ROSE

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5335

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 52 PEACH****1. Identification****Product identifier****Product name** LUG 52 PEACH**Product number** LUG 52 PEACH**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 52 PEACH

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**



## LUG 52 PEACH

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 52 PEACH

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact** May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation** Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient** No information available.

**Mobility in soil**

**Mobility** Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 52 PEACH

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

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## LUG 52 PEACH

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5336

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 58 DARK RED****1. Identification****Product identifier****Product name** LUG 58 DARK RED**Product number** LUG 58 DARK RED**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 58 DARK RED

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 58 DARK RED

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
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**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 58 DARK RED

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

**11. Toxicological information**

Information on toxicological effects

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

Skin corrosion/irritation

Skin sensitization

**Skin sensitisation** Based on available data the classification criteria are not met.

Eye contact

May cause temporary eye irritation.

**12. Ecological Information**

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

Toxicity

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

Persistence and degradability

**Persistence and degradability** No data available.

Biodegradation

Not inherently biodegradable.

Bioaccumulative potential

Partition coefficient

No information available.

Mobility in soil

Mobility

Semi-mobile.

Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

Other adverse effects



## LUG 58 DARK RED

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 58 DARK RED

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5341

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY DATA SHEET**  
**LUG 60 LIGHT YELLOW****1. Identification****Product identifier****Product name** LUG 60 LIGHT YELLOW**Product number** LUG 60 LIGHT YELLOW**Recommended use of the chemical and restrictions on use****Application** Ceramic underglaze**Details of the supplier of the safety data sheet****Supplier** American Art Clay Co Inc  
6060 Guion Road  
Indianapolis,  
IN 46254-1222  
USA  
+1 317 244 6871**Emergency telephone number****Emergency telephone** 1 317 244 6871 Mon-Fri, 0900-1700 EST**2. Hazard(s) identification****Classification of the substance or mixture****Physical hazards** Not Classified**Health hazards** Not Classified**Environmental hazards** Not Classified**Label elements****Hazard statements** NC Not Classified**Other hazards**

none present.

**3. Composition/information on ingredients****Mixtures****Composition comments** Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.**4. First-aid measures****Description of first aid measures****Inhalation** Unlikely route of exposure as the product does not contain volatile substances.**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.**Skin Contact** Wash skin thoroughly with soap and water.**Eye contact** Rinse with water.**Most important symptoms and effects, both acute and delayed****Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

## LUG 60 LIGHT YELLOW

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Products with specific warnings about ingestion will give guidance there.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

**Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** For personal protection, see Section 8.

**Environmental precautions**

**Environmental precautions** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

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

**Methods for cleaning up** Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

**7. Handling and storage**

**Precautions for safe handling**

**Usage precautions** Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Specific end uses(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection**

## LUG 60 LIGHT YELLOW

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	No specific ventilation requirements unless the "FAN" pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the "HAND PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hygiene measures</b>	Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.
<b>Respiratory protection</b>	No specific respiratory protection required unless the "RESPIRATOR" pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

<b>9. Physical and Chemical Properties</b>
--

**Information on basic physical and chemical properties**

<b>Appearance</b>	Colored liquid.
<b>Color</b>	Various colors.
<b>Odor</b>	Almost odorless.
<b>Odor threshold</b>	No information available.
<b>pH</b>	6-8
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	Greater than 1.0
<b>Solubility(ies)</b>	Not applicable.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	none
<b>Oxidising properties</b>	none
<b>Other information</b>	Not applicable.

## LUG 60 LIGHT YELLOW

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	No particular stability concerns.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None known.

### 11. Toxicological information

**Information on toxicological effects**

**Toxicological effects** Please read Section 2 thoroughly to understand the toxicological risks, (if any) and precautions for safe use (if any).

**Skin corrosion/irritation**

**Skin sensitization**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Eye contact**

May cause temporary eye irritation.

### 12. Ecological Information

**Ecotoxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Toxicity**

**Toxicity** Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and container. Do not put materials into waterways or sewers.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Biodegradation**

Not inherently biodegradable.

**Bioaccumulative potential**

**Partition coefficient**

No information available.

**Mobility in soil**

**Mobility**

Semi-mobile.

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

## LUG 60 LIGHT YELLOW

**Other adverse effects** None known.

### 13. Disposal considerations

#### Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

#### Packing group

Not applicable.

#### Environmental hazards

##### **Environmentally Hazardous Substance**

Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.

#### Special precautions for user

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

#### US State Regulations

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### Inventories

##### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.

##### **US - TSCA**

All the ingredients are listed or exempt.

##### **US - TSCA 12(b) Export Notification**

All the ingredients are listed or exempt.

### 16. Other information

## LUG 60 LIGHT YELLOW

<b>General information</b>	The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrous Aluminum Silicate1332-58-7, Crystalline Silica14808-60-7, Calcium Carbonate1317-65-3, Feldspar68476-25-5 Ground Calcined Fireclay Shapes14464-46-1
<b>Revision date</b>	4/5/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/8/2016
<b>SDS No.</b>	5342

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