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Safety Data Sheet acc. to OSHA HCS

Printing date 04/10/2015 Version 6 Reviewed on 04/10/2015

1 Identification

· Product identifier Glass enamel powder

· Trade name:

Product ID#: UNLEADED ONGLAZE PURPLE

94A1003

· Product Use: Glass enamel powder

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Johnson Matthey Inc.

498 Acorn Lane

Downingtown, PA 19335

tel. 1 610 873-3200

fax. 1 610 873-3255

· Information department: Product Safety Department 1 (610) 873-3200 M-F 8am-5pm

Emergency telephone number: 1 856 384-7050

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Hazard description:
- · American Hazard Description

Based upon the components the following hazards may exist:

Target Organs - Eyes, Skin Lungs

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

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· HMIS ratings (scale 0 - 4)



- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of frits and/or raw materials of natural origin and inorganic pigments in powder form

· Hazardous components:			
CAS: 65997-18-4 EINECS: 266-047-6	frits, chemicals	75-100%	
	silver compounds (calculated as Ag2O)	1-5%	
· Main components:			
CAS: 65997-18-4 EINECS: 266-047-6	frits, chemicals	75-100%	
CAS: 1345-24-0 EINECS: 215-720-2	gold stannate purple	10-<25%	
	silver compounds (calculated as Ag2O)	1-5%	

· SVHC -

· Additional information:

For the wording of the listed risk phrases refer to section 16.

This product is partly or entirely the result of a melting, calcining or sintering process at high temperatures. It therefore does not necessarily exhibit the properties of the abovementioned metallic constituents. The mentioned metals are present in a complex matrix and are expressed as their oxides; it is however highly unlikely that these oxides are actually present in the product, unless explicitly specified.

C.I. Pigment Red 109 is Purple Cassius or Gold Stannate

4 First-aid measures

- · Description of first aid measures
- General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Remove contaminated clothing and wash skin with soap and water. Wash or clean clothing before reuse.

- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

6 Accidental release measures

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

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:

The application of this product requires well exhausted firing kilns and efficient ventilation of working areas.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

There is no PEL established for this mixture. Recommend monitoring based upon the components in the mixture.

65997-18	3-4 frits, chemicals
PEL	Long-term value: 15 mg/m³ recommended PEL for nuisance dust
TLV	Long-term value: 15 mg/m³ recommended TLV for nuisance dust
silver co	mpounds (calculated as Ag2O)
ACGIH	FLV Long-term value: 0.001 mg/m³ silver compounds, soluble (as Ag)

· Additional information: The lists that were valid during the creation were used as basis.

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- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- Protection of hands:
- · Material of gloves

Nitrile rubber, NBR

Chemical resistant gloves

• Eye protection: Not required.

9 Physical and chemical properties

Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Powder Color: Pink
Odor: Odorless

pH-value: Neutral

· Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

• **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Solvent content:

 Organic solvents:
 0.0 %

 Water:
 0.0 %

 Solvent (USA):
 0.0 %

 Solids content:
 100.0 %

Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

silver compounds (calculated as Ag2O)

Oral LD50 2820 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not regulated
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Not regulated
· Packing group · DOT, ADR, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
· DOT · Remarks:	Not regulated
· ADR · Remarks:	Not regulated
· ADN · Remarks:	Not regulated
· IMDG · Remarks:	Not regulated
· IATA · Remarks:	Not regulated
· UN "Model Regulation":	-

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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- Warning: This product contains a chemical known to the State of California to cause cancer

None of the ingredients is listed.

· Warning: This product contains a chemical known to the State of California to cause female reproductive hazards.

None of the ingredients is listed.

· Warning: This product contains a chemical known to the State of California to cause male reproductive hazards

None of the ingredients is listed.

Warning: This product contains a chemical known to the State of California to cause development toxicity

None of the ingredients is listed.

- Canadian Ingredient disclosure list
- · Limit 0,1%

None of the ingredients is listed.

- · Limit 1%
- None of the ingredients is listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

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

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Contact:

J. Rose

EHS Specialist

· Date of preparation / last revision 04/10/2015 / 5

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.

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