SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name: Enduramark Engravable Plastics (EEPs)
Product Code: EEP-3110-XXX-XXX-XXX

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST
Pigmented Acrylic Copolymers for Engraving

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURERED BY:	VV Materials, LLC (DBA: Enduramark)
DIVISION:	Material Science
ADDRESS:	14101 W. Hwy 290 STE 1800 Austin, TX 78737

1.4 EMERGENCY TELEPHONE NUMBER

CHEMTREC PHONE:	800-424-9300
PRODUCT INFORMATION:	512-236-6424

CAS No: **N/A**

Date of Preparation **6/1/2021**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification: Not Classified
GHS Label Elements: N/A

GHS Hazard Categories
Category 1 = Severe hazard
Category 2 = Serious Hazard
Category 3 = Moderate Hazard
Category 4 = Slight Hazard
Category 5 = Minimal Hazard

GHS Ratings	
Health	**5**
Flammabvility	**4**
Instability	**5**
Special	**N/A**

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	% by weight	OSHA
Polymethyl methacrylate	9010-88-1	<90%	N
Acrylic Styrene Copolymer	Proprietary	>3%	N
Methyl methacrylate	80-62-6	<0.5%	Y
Ethyl acrylate	140-88-5	<0.1%	Y

The substance(s) marked with a “Y” in the OSHA column are identified as hazardous chemicals according to the criteria of the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Specific chemical identities are being withheld as a trade secret (29 CFR 1910.1200)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
Dust and process vapors may be irritating to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get Medical attention.

In case of skin contact
Exposure to molten plastic may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream.

In case of eye contact
Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with water for at least 15 minutes. Get medical attention

If swallowed
No adverse health effects expected from ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Dry Chemical, Water Spray, Foam Carbon Dioxide. Avoid using direct streams of water on molten burning material.

Unsuitable extinguishing media
None Known

5.2 Special hazards arising from the substance or mixture
Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
See Section 8 - Exposure Controls / Personal Protection

6.2 Environmental precautions
No Special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Containment of this material should not be necessary. Sweep up or gather material and place in appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep away from heat, flame and strong oxidizing agents.

7.2 Advice on protection against fire and explosions
Keep away from heat, sparks, and flame.

7.3 Conditions for safe storage, including any incompatibilities
Keep away from heat, sparks, and flame. Store in cool place in original container and protect form sunlight.

7.4 Specific End Use
Apart from the uses mentioned in section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls/Personal Protection

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Ventilation: Local exhaust is required when dust or vapor is above the OSHA PEL or TWA limits.

Respiratory Protection NIOSH or MSHA approved respirators are recommended. Respirator is required when exposure is above OSHA PEL or TWA.

Gloves: Recommended when handling sharp edges and hot materials.

Eyes: Safety glasses or goggles should be worn when exposed to dust or hot materials.

Special PPE If close proximity to molten product wear face shield. If material is heated, wear gloves to protect against thermal burn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Various Colors
b) Odor	Slightly acrylic
c) Odor Threshold	Unknown
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	See GHS Section 2
j) Upper/lower flammability or exposure limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.15 g/cm^3
n) Water solubility 1 g/l at 20 °C (68 °F)	No data available
o) Partition coefficient: noctanol/water	No data available
p) Auto-ignition temperature	>600 ºF
q) Decomposition temperature	>500 ºF
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerization does not occur

10.4 Conditions to avoid
Heat, flames, and sparks. Extremes of temperature and direct sunlight. Prolonged contact with acids, alkalis and strong oxidizing agents.

10.5 Incompatible materials
None under normal conditions

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions – Carbon oxides, acrylates, methacrylates, hazardous organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

11.1 Irritation Effects

Eye Irritation: Solid particles may cause transient irritation from mechanical abrasion.
Skin Irritation: Not expeectd to cause skin irritation. Molten material may cause thermal burns.
Inhalation: Not a likely route of exposure. Process fumes may cause irritation.
Ingestion: May cause a choking hazard if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Under normal circumsytces this product is not considered toxic.

12.2 Persistence and degradability
This material is not expected to be reaily bidegradable.

12.3 Bioaccumulative potential
This material is not likely to accumulate in biological organisms.

12.4 Mobility in soil
This product has not been found to migrate thorugh soils.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with Federal, State and Local regulations.

SECTION 14: TRANSPORT INFORMATION

14. TRANSPORT INFORMATION

UN Number: Not Relevant
UN Proper Shipping Name: Not Relevant
Transportation Hazard Class(es) DOT: Not Regulated/classified
ADR / RID: Not Regulated/classified
IMDG: Not Regulated/classified
ICAO/IATA Not Regulated/classified
Packing Group: Not Applicable
Environmental Hazards: Not Relevant
Transportation in Bulk (According to Annex II of MARPOL 73/78 and IBC Code): Not Relevant
Special Precautions for User: No special precautions

SECTION 15: REGULATORY INFORMATION

These products meet OSHA 1910.1200 section (6) as articles. SDS is not required if the form is not altered. This SDS is produced as additional information for those who intend on altering this product and generating dust, vapors, and wastes in the process

SARA Title III, Section 313
This product does contain chemical(s), which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See section 2.

State Right to Know Information
The following chemicals are specifically listed by individual states; other product specific data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.
This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SECTION 16: OTHER INFORMATION

The information presented in this Safety Data Sheet is based on data considered to be accurate as of the date this Safety Data Sheet was prepared. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In additional, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.