

# **SAFETY DATA SHEET**

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** ENDURO PRIME 2.1 VOC DTM Epoxy Primer

**PRODUCT CODES:** EP610 White, EP611 Gray, EP612 Black

**MANUFACTURER:**

COVENTRY COATINGS CORP.  
 dba Kirker Automotive Finishes  
 89 Taft Ave.  
 Newburgh, NY 12550  
 USA: 1-800-307-7951 or (845) 562-5666

**EMERGENCY CONTACT FOR  
 SPILL, FIRE, EXPLOSION:  
 CHEM-TREC 1-800-424-9300**

## **SECTION 2: HAZARD IDENTIFICATION**

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<b>Classification:</b>	FLAMMABLE LIQUIDS: Category 2 ACUTE TOXICITY Inhalation: Category 4 ACUTE TOXICITY Oral: Category 4 ACUTE TOXICITY Dermal: Category 4 SKIN SENSITIZATION: Category 1 CARCINOGENICITY: Category 2 SKIN IRRITATION: Category 2 EYE IRRITATION: Category 2A SPECIFIC TARGET ORGAN TOXICITY: Category 3 (Respiratory, Central Nervous System) SINGLE EXPOSURE: Percentage of mixture consisting of ingredients of unknown toxicity: 10%
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**GHS Label Elements:** PICTOGRAMS



**SIGNAL WORD:** Danger

**Hazard Statements:** Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin, causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation, drowsiness or dizziness. Suspected of causing cancer.

**Precautionary Statements:**

**Prevention:** Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and other tools or equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust, fumes, gas, mist, vapors or spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as required, (see Section 8). Wear protective gloves, protective clothing, eye and face protection. Wear an appropriate, properly fitted fresh air supplied respirator (NIOSH-approved TC19 or equivalent) during and after application, and until all organic solvent vapors and spray mists are exhausted, or any time airborne contaminant levels exceed exposure limits indicated in Section 8. If medical advice is needed, have product container or label at hand. Avoid release to the environment. Keep out of reach of children and pets at all times.

**Response:** Get Medical attention if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. Immediately call a POISON CENTER or physician if you feel unwell. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction, do not use water, see Section 5.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient Name	CAS Number	% by Weight		
		EP610 White	EP611 Gray	EP612 Black
EPOXY	25036-25-3	24.9	29.4	27.7
MAGNESIUM SILICATE	14807-96-6	21.1	25.0	23.6
DIMETHYL CARBONATE	616-38-6	21.1	25.0	23.5
TITANIUM DIOXIDE	13463-67-7	21.7	5.9	-
*METHYL ISOBUTYL KETONE	108-10-1	4.2	5.0	4.7
*RUST INHIBITIVE PIGMENT	1314-13-2	2.1	3.8	3.5
ISOPROPYL ALCOHOL	67-63-0	2.0	2.4	2.2
* BUTYL CELLOSOLVE	111-76-2	2.0	2.3	2.2

\* Indicates chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372

**SECTION 4: FIRST AID MEASURES**

<b>Eyes:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, check for and remove contact lenses. Seek immediate medical attention.
<b>Skin:</b>	Remove contaminated clothing. Immediately flush exposed area with large amounts of water. If symptoms persist, seek medical attention. Wash clothing separately and clean shoes before reuse.
<b>Ingestion:</b>	Seek immediate medical attention, contact physician or poison control center. Do NOT induce vomiting unless directed to do so by medical professional. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Seek immediate medical attention. Remove from exposure to fresh air. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel; rescuers should put on appropriate protective gear. This coating contains materials classified as nuisance particles, (listed as "Resp. Dust" in Section 8), which may be present at hazardous levels during sanding or abrading of the dried film, do not breath dust.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

Vapor and spray mist harmful. May be harmful or fatal if swallowed, aspiration hazard. Exposure may cause lung damage, allergic reaction and respiratory reaction. May cause eye, skin, nose, throat and respiratory irritation. May affect the central nervous system causing dizziness, headache, or nausea. May cause skin dryness or cracking. Sanding dust may be harmful if inhaled, do not breath dust, use personal protective equipment.

<b>Effects:</b>	Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage causing dizziness, headache, or nausea and may cause adverse liver and kidney effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Individuals with chronic respiratory problems should neither use this product nor be exposed to its vapors or spray mist.
<b>Notes to Physician:</b>	This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Symptoms of poisoning may appear several hours after exposure.

**SECTION 5: FIRE FIGHTING MEASURES****Suitable Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Alcohol-resistant Foam. Do not use water, material will float and may ignite on surface of water.

**Fire Fighting Procedures:**

Fight as volatile liquid fire Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Eliminate all sources of ignition. Evacuate unnecessary personnel. Use water spray to cool containers with caution, avoid spreading burning liquid. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

**Unusual Fire and Explosion Hazard:**

Flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Vapors/dust may cause flash fire or explosion. This material may be ignited by heat, sparks, flame or static electricity. Closed containers may explode when exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Environmental Precautions:**

Avoid runoff and contact with soil, drains, sewers and waterways. Contact appropriate authority if spill is in excess of reportable quantity.

**Personal Precautions:**

Eliminate all ignition sources. No smoking, do not use flares. Contact emergency personnel. Evacuate the spill area and keep unnecessary, unprotected personnel away. Do not breathe vapors, use suitable personal protective equipment. Do not touch or walk through spilled material. Prevent additional discharge of material if able to do so safely. Ventilate spill area.

**Method of Cleaning Up:**

For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material, or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal using non-sparking tools.

Dispose of spilled material and contaminated absorbent material in compliance with local and national regulations, use a licensed waste disposal contractor, refer to Section 13.

**SECTION 7: HANDLING AND STORAGE****Precautions for Safe Handling:**

Use only in a well ventilated area, with appropriate personal protective equipment, (see section 8). Do not eat, drink or smoke when handling this material. Wash hands and face before eating, drinking or smoking. Do not breathe vapor, fumes or mist. Do not get in eyes, or on skin, or clothing.

Always open containers slowly to allow any excess pressure to vent. Containers should be grounded when pouring. Take precautionary measures against static discharge. When transferring, follow proper grounding procedures. Use spark-proof tools and explosion proof equipment.

This material is part of a multiple component system, read the Safety Data Sheet(s) for all components before mixing, as the mixture will have the hazards of all of its parts. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for Safe Storage, Including Incompatibilities:**

Store in accordance with local regulations. Store locked up. Keep container closed when not in use. Isolate from heat, flame, sparks, pilot lights, smoking materials and other sources of ignition. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated, explosion proof area. Protect from direct sunlight.  
KEEP OUT OF REACH OF CHILDREN AND PETS AT ALL TIMES.

**SECTION 8: EXPOSURE CONTROLS\PERSONAL PROTECTION**

<b>Ingredient Name</b>	<b>CAS</b>	<b>Exposure Limits</b>
BUTYL CELLOSOLVE	111-76-2	OSHA PEL TWA 50 PPM ACGIH TWA 20 PPM
DIMETHYL CARBONATE	616-38-6	Data not available
EPOXY	25036-25-3	Data not available
ISOPROPYL ALCOHOL	67-63-0	ACGIH TWA 200 PPM OSHA PEL TWA 400 PPM
MAGNESIUM SILICATE	14807-96-6	ACGIH TLV 2mg/m <sup>3</sup> Resp. Dust
METHYL ISOBUTYL KETONE	108-10-1	ACGIH TWA 20 PPM OSHA PEL TWA 100 PPM
RUST INHIBITIVE PIGMENT	1314-13-2	ACGIH TLV 2mg/m <sup>3</sup> (respirable fraction) OSHA PEL TWA 5mg/m <sup>3</sup> (respirable fraction)
TITANIUM DIOXIDE	13463-67-7	ACGIH TLV 10mg/m <sup>3</sup> OSHA PEL TWA 15mg/m <sup>3</sup> , total dust

**Engineering Controls:** Provide explosion proof exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal Protective Equipment**

**Eyes and Face:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**Skin:** Wear impervious gloves to prevent contact with the skin. Where contact is likely, wear chemical resistant gloves, a chemical suit, long sleeves, rubber boots, and chemical safety goggles plus a face shield.

**Respiratory:** Wear an appropriate, properly fitted fresh-air supplied respirator, (NIOSH-approved TC-19C or equivalent), during and after application, until all organic vapors and spray mists are exhausted or any time airborne contaminate levels exceed exposure limits. Follow respirator manufacturer's directions and observe OSHA regulations for respirator use (29 cfr 1910.134).

**Work Hygienic Practices:**

Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Color:	Liquid in assorted colors by part number
Odor:	Typical
Odor Threshold:	Not available
pH:	Not available
Melting Point:	Not applicable
Boiling Point:	90°C
Flash Point and Method:	54°F TCC
Evaporation Rate:	Not available
Flammability(Solid/Gas):	Not applicable
Flammable Limits:	1 - 16
Vapor Pressure:	Not available
Vapor Density:	Heavier Than Air
% Solubility in Water:	Not available
Octanol/Water Partition Coefficient:	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	102 – 105 KU

	EP610 White	EP611 Gray	EP612 Black
Density (lbs/gal):	12.88	11.51	12.05
Specific Gravity:	1.55	1.38	1.45
Volatile Weight:	29.34	34.69	32.71
Volatile Volume:	46.03	48.61	47.99
Exempt V.O.C. Wt %:	21.12	24.97	23.54
Exempt V.O.C. Vol %:	30.50	32.22	31.80
Regulatory V.O.C. g/l:	182.71	197.86	194.15
Actual V.O.C. g/l:	126.98	134.12	132.40

## **SECTION 10: STABILITY AND REACTIVITY**

### **Hazardous Polymerization:**

Under normal conditions of storage and use, hazardous polymerization will not occur.

### **Conditions to Avoid:**

Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke, extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, tools, appliances and any other possible sources of ignition prior to spray application, during use and until all vapors are exhausted from the area.

### **Chemical Stability:**

The product is stable. Avoid heat, open flame, sparks, static electricity, freezing.

### **Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide, and possible oxides of nitrogen.

### **Incompatible Materials:**

Alkaline materials, strong acids and oxidizing materials.

### **Possibility of Hazardous Reactions:**

Under normal conditions of use and storage, hazardous reactions will not occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Available ingredient data is listed below:

### **BUTYL CELLOSOLVE(111-76-2)**

Acute Dermal Toxicity	LD:50 >2,000 mg/kg (guinea pig)	
Acute Inhalation Toxicity	LC0: >3.1 mg/l 1hrs (guinea pig)	Exposure to vapor may cause irritation of the eyes, nose, or throat. Inhalation may result in dizziness, headache, weakness, nausea and vomiting.
Acute Oral Toxicity	LD50: 1,1414 mg/kg (guinea pig)	Category 4. Harmful if swallowed. Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.
Target Organ, Single Exposure	Central Nervous System	Category 3 May cause drowsiness or dizziness. High concentrations may cause central nervous system depression.
Eye Irritation	Category 2A	Causes serious eye irritation.
Skin Irritation	Category 2	Causes skin irritation.

### **DIMETHYL CARBONATE(616-38-6)**

Acute Dermal Toxicity	LD50: >2,000 mg/kg (rabbit)	May cause skin irritation.
Acute Inhalation Toxicity	LC50: 5.36 mg/l 4hrs (rat)	
Acute Oral Toxicity	LD50: >5,000 mg/kg (rat)	
Eye Irritation	Contact with eyes may cause irritation.	

### **EPOXY(25036-25-3)**

Acute Dermal Toxicity	LD50: > 2,000 mg/kg (rabbit)	May be harmful in contact with skin.
Acute Inhalation Toxicity	LD50: > 2,000 mg/kg (rat)	
Acute Oral Toxicity	May be harmful if swallowed.	
Eye Irritation	Category 2B	Causes eye irritation.
Skin Irritation	Category 2	Causes skin irritation.
Skin sensitization	Category 1	May cause an allergic skin reaction.

### **ISOPROPYL ALCOHOL(67-63-0)**

Acute Dermal Toxicity	LD50 12,800 mg/kg (rabbit)	May cause skin irritation.
Acute Inhalation Toxicity	LC50 16000 ppm (rat)	
Acute Oral Toxicity	LD50 5,045 mg/kg (rat)	
Target Organ, Single Exposure	Central Nervous System	Category 3 May cause drowsiness or dizziness.
Eye Irritation	Category 2A	Causes serious eye irritation.
Symptoms of Overexposure	Headache, dizziness, tiredness, nausea and vomiting.	

### **TITANIUM DIOXIDE(13463-67-7)**

Acute Dermal Toxicity	LD50: >5,000 mg/kg (rabbit)	
Acute Inhalation Toxicity	LC50: >6.8 mg/l 4hrs (rat)	
Acute Oral Toxicity	LD50: >5,000 mg/kg (rat)	
Carcinogenicity Classification	IARC Group 2B	Possibly carcinogenic to humans.

### **METHYL ISOBUTYL KETONE(108-10-1)**

Acute Dermal Toxicity	LD50: >2,000 mg/kg (rat)	May cause skin irritation.
Acute Inhalation Toxicity	LC50: 8.2 - 16.4 mg/l 4hrs (rat)	Category 4 Harmful if inhaled.
Acute Oral Toxicity	LD50: 2,080 mg/kg (rat)	
Target Organ, Single Exposure	Respiratory System	Category 3 May cause respiratory irritation.
Eye Irritation	Category 2A	Causes serious eye irritation. May cause irreversible eye damage.
Carcinogenicity Classification	IARC Group 2B	Possibly carcinogenic to humans.

**RUST INHIBITIVE PIGMENT(1314-13-2)**

Acute Oral Toxicity LD50: >5,000 mg/kg (rat)  
 Carcinogenicity Classification IARC Group 1 Category 1A

Category 4 Harmful if swallowed  
 Contains Quartz, (CAS No. 14808-60-7), which is classified as carcinogenic to humans.

**SECTION 12: ECOLOGICAL INFORMATION**

Available ingredient data is listed below:

**BUTYL CELLOSOLVE(111-76-2)**

Toxicity to fish	Oncorhynchus mykiss (rainbow trout)	LC50: 1,474 mg/l 96hrs
Toxicity to daphnia and other aquatic invertebrate	Daphnia magna (Water flea)	EC50 1,800 mg/l 48hrs
Toxicity to algae	Pseudokirchneriella subcapitata (green algae)	EC50 911 mg/l 72hrs
Persistence and degradability	Biodegradability	Readily
Bioaccumulative potential	Partition coefficient: n-octanol/water	log Pow: 0.83

**DIMETHYL CARBONATE(616-38-6)**

Toxicity to fish	Danio rerio (zebra fish)	LC50: >100 mg/l 96hrs
Toxicity to daphnia and other aquatic invertebrate	Daphnia magna (Water flea)	EC50: 83 mg/l 24hrs
Toxicity to algae	Pseudokirchneriella subcapitata (green algae)	EBC50: 72 mg/l 72hrs
Toxicity to bacteria	Activated sludge	EC50: >1,000 mg/l 3hrs
Persistence and degradability	Biodegradability	Readily
Bioaccumulative potential	Bioaccumulation	Bioaccumulation is unlikely

**ISOPROPYL ALCOHOL(67-63-0)**

Toxicity to fish	Pimephales promelas (flathead minnow)	LC50: >1,000 mg/l 96hrs
Toxicity to daphnia and other aquatic invertebrate	Daphnia magna (Water flea)	LC50: >100 mg/l 48hrs
Persistence and degradability	Biodegradability	Readily
Bioaccumulative potential	Bioaccumulation	Bioaccumulation is unlikely

**METHYL ISOBUTYL KETONE(108-10-1)**

Toxicity to fish	Danio rerio (zebra fish)	LC50: >179 mg/l 96hrs
Toxicity to daphnia and other aquatic invertebrate	Daphnia magna (Water flea)	EC50: >200 mg/l 48hrs
Toxicity to algae	Pseudokirchneriella subcapitata (green algae)	EC50: 400 mg/l 96hrs
Persistence and degradability	Biodegradability	Readily
Bioaccumulative potential	Bioaccumulation	Bioaccumulation is unlikely

**SECTION 13: DISPOSAL CONSIDERATIONS****Recommendations:**

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection, waste disposal legislation and any regional local authority requirements. Empty containers should be disposed of through an approved waste management facility. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, ensure conformity to all applicable hazardous waste regulations, and consult your local or regional authorities.

**SECTION 14: TRANSPORT INFORMATION**

UN NUMBER: UN1263

UN PROPER SHIPPING NAME: PAINT

TRANSPORT HAZARD CLASS: 3

PACKING GROUP: II

**SPECIAL PRECAUTIONS:** The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the shipper and the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Local Government regulations and rules should prevail.

**SECTION 15: REGULATORY INFORMATION****United States Federal Regulations:****OSHA:**

OSHA Hazard Communication Standard 29 CFR 1910.1200  
 A component(s) of this product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA RQ - 40 CFR302.4(a): List of Hazardous Substances and Reportable Quantities (RQ)**

BUTYL CELLOSOLVE	111-76-2	Glycol Ethers N230
METHYL ISOBUTYL KETONE	108-10-1	5,000 lbs.
RUST INHIBITIVE PIGMENT	1314-13-2	Zinc Compounds N982

**SARA Section 311/312 Hazard Category - 40 CFR 370.2**

This product is considered, under applicable definitions, to meet the following categories:  
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA 313 Components - 40 CFR 372.65**

This product contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and 40 CFR 372:

BUTYL CELLOSOLVE	111-76-2	Glycol Ethers N230
METHYL ISOBUTYL KETONE	108-10-1	
RUST INHIBITIVE PIGMENT	1314-13-2	N982

**STATE REGULATIONS:****California Proposition 65:**

 **WARNING: Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

BUTYL CELLOSOLVE	111-76-2	Reproductive harm
METHYL ISOBUTYL KETONE	108-10-1	Cancer & Reproductive harm
RUST INHIBITIVE PIGMENT	1314-13-2	
Contains: Quartz	14808-60-7	Cancer
TITANIUM DIOXIDE	13463-67-7	Cancer

**New Jersey, Pennsylvania, Massachusetts**

BUTYL CELLOSOLVE	111-76-2
DIMETHYL CARBONATE	616-38-6
ISOPROPYL ALCOHOL	67-63-0
METHYL ISOBUTYL KETONE	108-10-1
RUST INHIBITIVE PIGMENT	1314-13-2
Contains: Quartz	14808-60-7
TITANIUM DIOXIDE	13463-67-7

**SECTION 16: OTHER INFORMATION****HMIS RATING**

**Health:** 3  
**Flammability:** 3  
**Personal Hazard:** 1  
**Personal Protection:** J

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

DISCLAIMER: The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date. Coventry Coatings Corp. makes no representation, warranty or guarantee as to the completeness or accuracy thereof. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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