



SAFETY DATA SHEET

Product: UV Coating System – Sealer & Top Coat

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SECTION 1: IDENTIFICATION**GHS product identifier:** UV Coating System – Sealer & Top Coat**Recommended use of the chemical and restrictions on use:** Veneer Birch, Maple, Euro Birch, Medium Density Fiberboard**Supplier's details:** USply LLC
9400 NW 104th Street, #100
Medley, FL 33178
Phone#: +1 (305) 722-6622
www.usply.net**Emergency phone number:** +1 (305) 722-6622**SECTION 2: HAZARD IDENTIFICATION****Classification of the substance or mixture:** Flammable Liquids - Category 4;
Acute Toxicity - Dermal - Category 5;
Skin Corrosion/Irritation - Category 2;
Serious eye damage/eye irritation - Category 2A;
Skin Sensitization - Category 1;
Germ Cell Mutagenicity - Category 1B;
Carcinogenicity - Category 1B;
Hazardous to the Aquatic Environment - Acute Hazard - Category 2.**Classification system adopted:** Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.**GHS label elements, including precautionary statements****Pictograms:****Signal word:** DANGER**Hazard statement(s):** H227 Combustible liquid.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H401 Toxic to aquatic life.**Precautionary statement(s):** **PREVENTION:**
P203 Obtain, read and follow all safety instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.



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P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P302 + P317 IF ON SKIN: Get medical help.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318 IF exposed or concerned, get medical advice.
P321 Specific treatment.
P332 + P317 If skin irritation occurs: Get medical help.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.

STORAGE:

P403 Store in a well-ventilated place.
P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

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

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Trimethylolpropane triacrylate	15625-89-5 239-701-3	6.59 - 7.29
Pentaerythryl triacrylate	3524-68-3 222-540-8	5.71 - 6.31
2-Hydroxy-2-methylpropiophenone	7473-98-5 231-272-0	4.57 - 5.05
2,2-dimethyltrimethylene diacrylate	2223-82-7 218-741-5	3.65 - 4.03
8E887 Polyurethane High molecular block polymer from DISPERBYK-2150	935-869-3	0.79 - 0.87
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9	0.75 - 0.82
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0	0.51 - 0.56



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Xylene	1330-20-7 215-535-7	0.15 - 0.16
Butylated hydroxytoluene	128-37-0 204-881-4	0.002

SECTION 4: FIRST-AID MEASURES**Description of necessary first-aid measures**

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	May cause an allergic skin reaction with pruritus and dermatitis. Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. May be harmful in contact with skin.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO ₂), foam, water mist and powder. Unsuitable: water directly onto the burning material.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated.
Special protective actions for fire-fighters:	If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:	Isolate the leak from sources of ignition. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product unless wearing suitable clothing. Avoid exposure to the product. Stay in a safe place with the wind at your back. Use personal protective equipment as described in section 8.
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For emergency responders:	Use full PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In the event of a leak, where exposure is high, the use of an appropriate respiratory protection mask is recommended.
Environmental precautions:	Prevent spilled product from reaching watercourses and sewage systems.
Methods and materials for containment and cleaning up:	Use water mist to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Absorb remaining product with dry sand, earth, vermiculite, or any other inert material. Place adsorbed product in appropriate containers and remove them to a safe location. Use non-sparking tools to collect absorbed product. All equipment used for handling must be electrically grounded. For final disposal, proceed as per Section 13 of this document.

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling**

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	Keep away from heat, sparks, open flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.
Conditions for safe storage, including any incompatibilities:	Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.
Packaging compatibilities:	Similar to the original packaging.
Inadequate packaging materials:	There are not known unsuitable material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Occupational exposure limit:	The values below apply to workplaces. - <u>Talc</u> : OSHA - PEL - TWA: 20 mppcf (29 CFR 1910.1000 Table Z-3, Mineral Dusts) (CFR); NIOSH - REL - TWA: 2 mg/m ³ (R); ACGIH - TLV - TWA: 2 mg/m ³ (E) (R); - <u>Silicon dioxide</u> : OSHA - PEL - TWA: 20 mppcf (80 mg/m ³)/(%SiO ₂) (29 CFR 1910.1000 Table Z-3. Mineral Dusts) (CFR); NIOSH - REL - TWA: 6 mg/m ³ ;
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- Zinc stearate:OSHA - PEL - TWA: 5 mg/m³ (R); 15 mg/m³ (TD);NIOSH - REL - TWA: 10 mg/m³ (TD); 5 mg/m³ (R);ACGIH - TLV - TWA: 10 mg/m³ (I); 3 mg/m³ (R);**- Xylene:**OSHA - PEL - TWA: 100 ppm (435 mg/m³) (29 CFR 1910.1000 Table Z-1) (CFR);NIOSH - REL - TWA: 100 ppm (435 mg/m³);NIOSH - REL - STEL: 150 ppm (655 mg/m³);

ACGIH - TLV - TWA: 20 ppm.

E: The value is for particulate matter containing no asbestos and < 1% crystalline silica;

R: Respirable particulate matter;

mppcf: Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. Conversion factors - mppcf X 35.3 = million particles per cubic meter = particles per c.c.

CFR: See mentioned item in OSHA CFR;

TD: Total dust;

I: Inhalable particulate matter.

Biological limit:**- Xylene:**

ACGIH - BEI: Determinant: Methylhippuric acid in urine. Sampling Time: End of shift. Index: 0.3 g/g creatinine.

Other limits and values:**- Talc:**NIOSH (IDLH): 1000 mg/m³.**Appropriate engineering controls:**

A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)**Eye/face protection:**

Protective glasses.

Skin protection:

Closed shoes and appropriate protective clothing. Suitable protective gloves.

Respiratory protection:

A risk assessment should be performed for proper definition of respiratory protection, in view of the material use conditions.

Thermal hazards:

It does not present thermal hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical state:**

Liquid, viscous.

Colour:

Colorless.

Odour:

Not available.

Melting point/freezing point:

Not available.

Boiling point or initial boiling point and boiling range:

Not available.

Flammability:

Combustible.



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Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	> 60 °C (140 °F) and ≤ 93 °C (199.4 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	Not available.
Kinematic viscosity:	Not available.
Solubility:	Immiscible in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Absolute density: 1.22 to 1.26 g/cm ³ at 25 °C (77 °F).
Relative vapour density:	Not available.
Particle characteristics:	Not applicable.
Other information:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	<ul style="list-style-type: none">- <u>Pentaerythryl triacrylate</u>: It suffers easy polymerization.- <u>2,2-dimethyltrimethylene diacrylate</u>: Reacts readily with electrophilic agents, free radicals and nucleophiles. Can polymerize.- <u>Xylene</u>: Risk of explosion when in contact with nitric acid and uranium hexafluoride. May react dangerously with oxidizing agents, acids and sulfuric acid.- <u>Butylated hydroxytoluene</u>: Dust can form explosive mixture with air.
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
Incompatible materials:	1,3-dichloro-5,5-dimethyl-2,4-imidazolinone, acid anhydrides, acid chlorides, acids, alkyl halides, allyl chloride, aluminum powder, base, bromine trifluoride, calcium, halogen compounds, lithium, magnesium, metal halides, nitro-organic compounds, nitrogen dioxide, oxidizing agents, perchlorates, peroxides, potassium, reducing agents, silver, sodium, strong acids, strong base, strong oxidizing agents, sulfur dichloride, sulphur, uranium hexafluoride, vinyl acetate and zinc powder.



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Hazardous decomposition products: No dangerous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Product not classified as acute toxic by oral and inhalation.
May be harmful in contact with skin.
ATEmix Oral: > 5000 mg/kg.
ATEmix Dermal: 4565.161 mg/kg.
ATEmix Vapours (4h): > 20 mg/L.
ATEmix Dusts and mists (4h): > 5 mg/L.

Information regarding to:
- Pentaerythrityl triacrylate:
LD₅₀ Dermal (rabbits): 4720 mg/kg
- 2,2-dimethyltrimethylene diacrylate:
LD₅₀ Dermal (rabbits): 186 mg/kg.

Skin corrosion/irritation: Causes skin irritation with redness, pain and dryness.

Serious eye damage/irritation: Causes serious eye irritation with redness and pain.

Respiratory or skin sensitization: May cause an allergic skin reaction with pruritus and dermatitis.
It is not expected to cause respiratory sensitization.

The ingredients Pentaerythrityl triacrylate, Trimethylolpropane triacrylate and 2,2-dimethyltrimethylene diacrylate are classified as skin sensitizers and contribute to this product classification.

Germ cell mutagenicity: May cause genetic defects.

Carcinogenicity: May cause cancer.

Reproductive toxicity: It is not expected to be reproductively toxic.

STOT - Single exposure: It is not expected to exhibit specific target organ toxicity by single exposure.

STOT - Repeated exposure: It is not expected to exhibit specific target organ toxicity on repeated exposure.

Aspiration hazard: It is not expected to present an aspiration hazard.



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SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity:** Toxic to aquatic life.

Information regarding to:

- Trimethylolpropane triacrylate:LC₅₀ (*Danio rerio*, 96 h): 0.87 mg/L;ErC₅₀ (*Desmodesmus subspicatus*, 96 h): 18.8 mg/L;EC₅₀ (*Daphnia magna*, 48 h): 19.9 mg/L.- 2-Hydroxy-2-methylpropiophenone:EC₅₀ (*Daphnia magna*, 48 h): > 100 mg/L;NOEC (*Desmodesmus subspicatus*, 72 h): 0.194 mg/L;ErC₅₀ (*Desmodesmus subspicatus*, 72 h): 1.95 mg/L.- Butylated hydroxytoluene:LC₅₀ (*Danio rerio*, 96 h): = 0.57 mg/L;ErC₅₀ (*Desmodesmus subspicatus*, 72 h): > 0.4 mg/L;NOEC (*Daphnia magna*): 0.069 mg/L;EC₅₀ (*Daphnia magna*, 48 h): 0.48 mg/L.**Persistence and
degradability:**

It has no persistence and is considered rapidly degradable.

Information regarding to:

- Trimethylolpropane triacrylate:

Degradation rate: 82 to 90% in 28 days.

- 2-Hydroxy-2-methylpropiophenone:

Degradation rate: 90 - 100% in 28 days.

- 2-methoxy-1-methylethyl acetate:

Degradation rate: 90% in 28 days.

- Xylene:

Degradation rate: 98% in 28 days.

**Bioaccumulative
potential:**

It is not expected to have a high bioaccumulative potential.



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SECTION 13: DISPOSAL CONSIDERATIONS**Disposal methods**

Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.

Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

SECTION 14: TRANSPORT INFORMATION

Road:	UN - United Nations: Model Regulations: <ul style="list-style-type: none">• Recommendations on the Transport of Dangerous Goods.
UN number:	Not classified as hazardous for the road transportation.
Environmental hazards:	The product is not considered dangerous for the environment for land transport.
Railway regulations:	COTIF - Convention concerning International Carriage by Rail: <ul style="list-style-type: none">• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	Not classified as dangerous for rail transport.
Environmental hazards:	The product is not considered dangerous for the environment in rail transport.
Sea:	IMO - International Maritime Organization: <ul style="list-style-type: none">• IMDG Code - International Maritime Dangerous Goods Code.
UN number:	Not classified as hazardous for water transportation.

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Environmental hazards:	It's not considered a marine pollutant for transportation.
Air:	IATA - International Air Transport Association: <ul style="list-style-type: none">• DGR - Dangerous Goods Regulation.
UN number:	Not classified as dangerous for air transport.
Environmental hazards:	The product is not considered dangerous for the environment for air transport.
Special precautions for user:	Not applicable.
Transport in bulk according to IMO instruments:	Consult regulations: <ul style="list-style-type: none">• International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;• International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.



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SECTION 15: REGULATORY INFORMATION**Safety, health and environmental regulations specific for the product in question**

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

SECTION 16: OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes
01	02/19/2026	Elaboration

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
Er₅₀- Effective concentration that results in a 50% reduction in the growth rate;
IDLH - Immediately Dangerous to Life or Health;
LC₅₀- Lethal Concentration 50%;
LD₅₀- Lethal Dose 50%;
NIOSH - National Institute for Occupational Safety and Health;
NOEC - No Observed Effect Concentration;
OSHA - Occupational Safety & Health Administration;
PBT - Persistent, bioaccumulative and toxic; PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
STEL - Short Term Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations;
vPvB - Very Persistent and very Bioaccumulative.

Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2025.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.



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Disclaimer:

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
