

Safety Data Sheet

Umaco Paver-Saver Plus (Gray)

Section 1 - Chemical Product and Company Information

Product Name: Umaco Paver-Saver Plus (Gray)

Revision Date: February 1, 2021

Version 1.0

Manufactured by: Umaco, Inc, 60 Rear Newhall Street, Lowell, MA 01852

Emergency Phone: 800-424-9300 (Chemtrec)

Information Phone: 978-453-8881

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Product Use: Concentrated stain for cured concrete and may be applied over sealed surfaces (refer to application instructions).

Not recommended for: Non-porous substrates (e.g. metal, resins, fiberglass) when submerged in water or exposed to severe weather conditions.

Section 2 - Hazards Identification

GHS Ratings:

Carcinogen	2	Limited evidence of human or animal carcinogenicity
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GHS Hazards

H351	Suspected of causing cancer
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GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P281	Use personal protective equipment as required
P308+P313	IF exposed or concerned: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Warning



Section 3 - Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
	Inert	40.00% - 50.00%
Water softened	7732-18-5	30.00% - 40.00%
TITANIUM DIOXIDE	13463-67-7	5.00% - 10.00%
2,2,4-TRIMETHYL 1,3- PENTENDIOL MONOISOBUTYRATE	25265-77-4	1.00% - 5.00%
2,2,4-TRIMETHYL 1,3-PENTENDIOL DIISPBURYRATE	6846-50-0	1.00% - 5.00%
SILICA AMORPHOUS	7631-86-9	1.00% - 5.00%
ALUMINUM HYDROXIDE	21645-51-2	1.00% - 5.00%
CARBON BLACK	1333-86-4	1.00% - 5.00%

Section 4 - First Aid Measures

INHALATION - If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation; call a physician. Administer oxygen if a qualified operator is available.

EYE CONTACT - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

SKIN CONTACT - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water. Call a POISON CENTER or doctor/physican if you feel unwell.

INGESTION - If material is ingested, seek immediate medical attention. Rinse mouth thoroughly. Do not induce vomiting.

Notes to Physician: Symptoms may be delayed.

Section 5 - Fire Fighting Measures

Flash Point: > 100 C (>212 F)

LEL:

UEL:

Flammable Limits:

EXTINGUISHING MEDIA: Use carbon dioxide (CO₂), "alcohol" foam, dry chemical, or water spray/water fog extinguishing systems.

UNUSUAL FIRE OR EXPLOSION HAZARDS: The product vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback.

HAZARDOUS COMBUSTION PRODUCTS: See section 10 for a list of hazardous decomposition products for this mixture.

FIRE FIGHTING: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

FIRE FIGHTING EQUIPMENT: Firemen and emergency responders: wear full turnout gear or Level A equipment, including positive-pressure, self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes

except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas .

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Label the waste container. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

STORAGE: Prevent from freezing. Do not store above 120 F (49 C).

Store only in original containers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Inert	Not Established	Not Established	Not Established
Water softened 7732-18-5	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	Not Established
TITANIUM DIOXIDE 13463-67-7	OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf*)	ACGIH TLV TWA (inhalable particles) 10 mg/m3	Not Established
2,2,4-TRIMETHYL 1,3-PENTENDIOL MONOISOBUTYRATE 25265-77-4	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	Not Established
2,2,4-TRIMETHYL 1,3-PENTENDIOL DIISPBURYRATE 6846-50-0	No component of this product presents at levels greater than 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	No component of this product presents at levels greater than 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	Not Established
SILICA AMORPHOUS 7631-86-9	Not Established	Not Established	Not Established

ALUMINUM HYDROXIDE 21645-51-2	Not Established	Not Established	Not Established
CARBON BLACK 1333-86-4	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	Not Established

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstance:

<p>Explosive Limits: Not Determined</p> <p>Decomposition temperature: Not Determined</p> <p>Grams VOC less water: 45.27</p> <p>Odor: Slight Amine</p> <p>Odor threshold: Not Determined</p> <p>pH: 9.5 - 10.0</p> <p>Melting point: Not Determined</p> <p>Solubility: Not Determined</p> <p>Flash point: >212°F or >100°C</p> <p>Flammability: Not Applicable</p>	<p>Partition coefficient (n- Not Determined octanol/water):</p> <p>Viscosity: 1100-1300 cPs</p> <p>Appearance: Liquid</p> <p>Vapor Pressure: N/A</p> <p>Vapor Density: 2.0</p> <p>Specific Density: 1.11</p> <p>Freezing point: 0°C</p> <p>Boiling range: 100°C</p> <p>Evaporation rate: Not Determined</p>
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Section 10 - Stability and Reactivity

Stability:

STABLE

Incompatibilities/Conditions to avoid: Elevated temperatures. Contact with oxidizing agent/oxidizers.

Hazardous Decomposition: Can produce Carbon Monoxide and/or Carbon Dioxide.

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 133mg/L

Component Toxicity

25265-77-4	2,2,4-TRIMETHYL 1,3- PENTENDIOL MONOISOBUTYRATE Inhalation LC50: 4 mg/L (Rat)
6846-50-0	2,2,4-TRIMETHYL 1,3-PENTENDIOL DIISPBURYRATE Oral LD50: 2,000 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Guinea Pig) Inhalation LC50: 0 mg/L (Rat)
7631-86-9	SILICA AMORPHOUS Oral LD50: 5,000 mg/kg (Rat) Inhalation LC50: 2,000 mg/m3 (Rat)

Primary routes of entry: Inhalation, Skin contact.

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
1333-86-4	CARBON BLACK	1 to 5%	CARBON BLACK :
13463-67-7	TITANIUM DIOXIDE	5 to 10%	TITANIUM DIOXIDE:

Section 12 - Ecological Information

Component Ecotoxicity

Water softened

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

TITANIUM DIOXIDE

Ecotoxicity:

Fish: LC 50 - other fish - > 1,000 mg/l - 96h

Invertebrates: EC 50 - Daphnia magna (water flea) - > 1,000 mg/l - 48h

Persistence and degradability:

Readily degradable in the environment.

Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

2,2,4-TRIMETHYL 1,3-PENTANDIOL MONOISOBUTYRATE

Toxicity

Acute Toxicity

Fish

Product: No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate
: 33 mg/l

LC-50 (Flathead Minnow, 96h)

Aquatic invertebrates

Product No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate
147.8 mg/l

EC-50 (Water Flea, 48h):

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

No data available

Aquatic invertebrates

Product No data available

Specified substance(s)

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate

No data available

Mobility in soil: Log Koc - log koc: 1.5 - 2.8

Results of PBT and vPvB assessment: No data available.

2,2,4-TRIMETHYL 1,3-
PENTENDIOL DIISPBURRATE

2,2,4-trimethyl-1,3-pentenediol monoisobutyrate Not fulfilling PBT
(persistent/bioaccumulative/toxic) criteria

Other adverse effects: No data available

Toxicity

Acute Toxicity

Fish

Product: NOEC: (Fish, 96h):>=6mg/l (limit of solubility in fresh water)

Aquatic Invertebrates

Product: NOEC: (daphnid, 48h):>=1.46 mg/l (limit of solubility in fresh water)

Chronic Toxicity

Fish

Product: No data available

Specified substance(s)

Aquatic invertebrates

Product: EC-50 (daphnid, 21 d):>1.3 mg/l (limit of solubility in fresh water)
NOEC: (daphnid, 21 d): 0.7 mg/l

Toxicity to Aquatic Plants

Product: EC-50 (Alga, 72 h):> 7.49 mg/l (limit of solubility in fresh water)

Persistence and degradability

Biodegradation

Product: 70.73% (28 d, Ready Biodegradability: CO2 Evolution Test)
Readily biodegradable, failing 10-d window

Biological Oxygen Demand:

Product: BOD-5 and BOD-20 were not determined because the aqueous solubility of the test article was below that which is required for these tests.

Chemical Oxygen Demand:

Product: No data available

BOD/COD ratio

Product: No data available

Specified substance(s)

Bioaccumulative potential

Product: Fish, Bioconcentration factor (BCF): 1.95 (Measured)
Fish, Bioconcentration factor (BCF): 183 - 194 (Measured)

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Results of PBT and vPvB Not fulfilling PBT (persistent/bioaccumulative/toxic)
criteria
assessment:

SILICA AMORPHOUS

Other adverse effects: No data available.

Fish Toxicity LC0 (96h) (static) 10000 mg/l (zebra fish) (OECD 203)

Water Flea Toxicity EC50 (24H) 1000 mg/l (Daphnia magna) (OECD 202)

Algae Toxicity EC50 (72h) 10000 mg/l (Scenedesmus subspicatus) (OECD 201)

CARBON BLACK

Toxicity

EC50 Daphnia 1 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)

Section 13 - Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14 - Transport Information

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Water Based Paint	Unregulated		Non Hazardous

Section 15 - Regulatory Information

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 13463-67-7 TITANIUM DIOXIDE Carcinogen
- 1333-86-4 CARBON BLACK Carcinogen

R2K List

- 13463-67-7 TITANIUM DIOXIDE
- 1333-86-4 CARBON BLACK

Section 16 - Other Information

Hazardous Material Information System (HMIS)

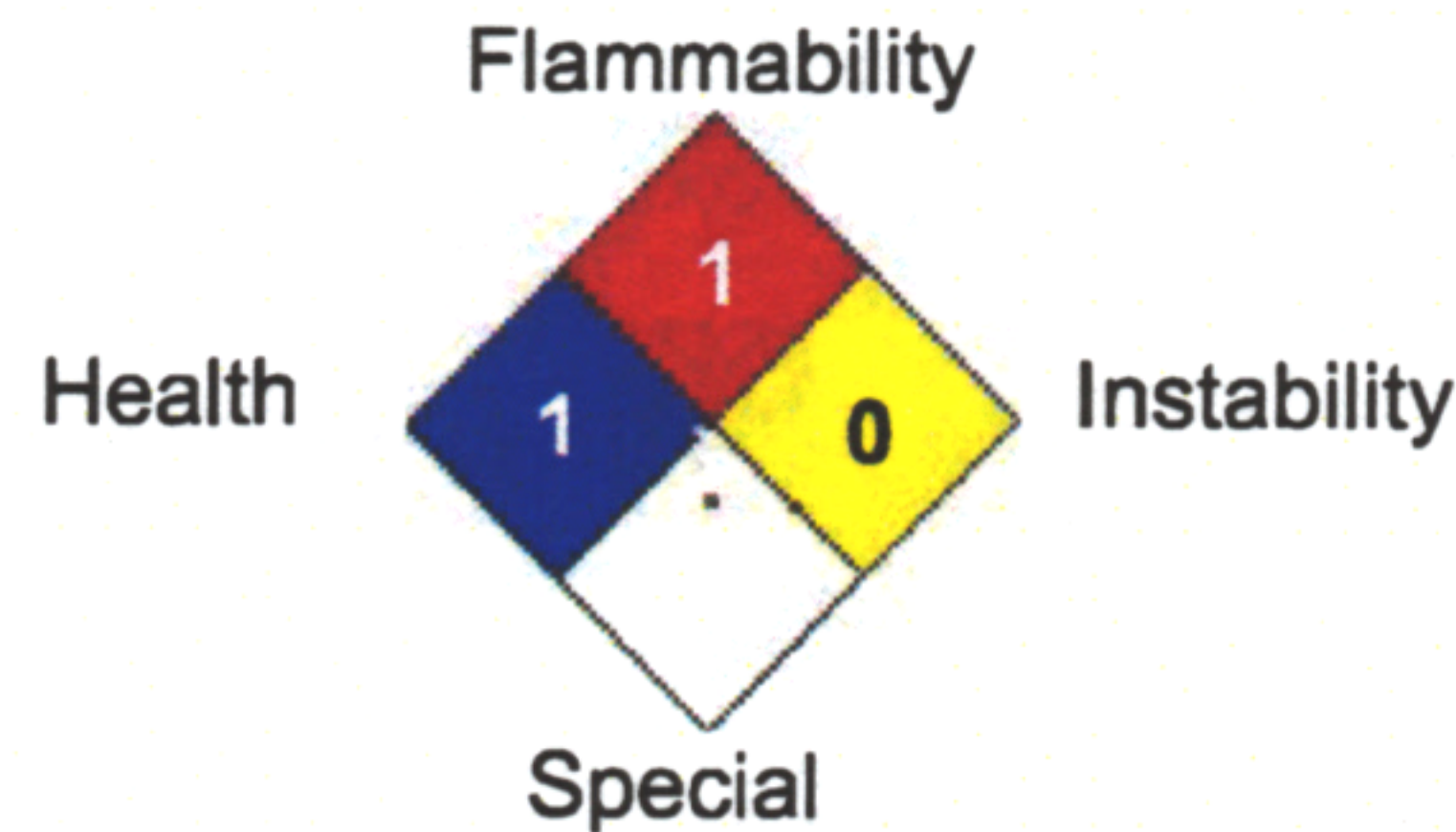
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

HMIS & NFPA Hazard Rating

Legend

- * = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

National Fire Protection Association (NFPA)



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