

Date: 10/24/2020

SAFETY DATA SHEET

SDS PREPARATION DATE: 10/24/2020, Version 2

Section 1 - Identification

GHS product identifier : RD 6702 KHAKI
 Chemical name : Mixture
 Synonyms : Color Dispersion, Color Concentrate
 Product type :
 Material use : PPI Tech Inc
 2700 Cumberland St Ste 5
 Lebanon, PA 17402

Supplier's details :
 ADDRESS

telephone number (717) 847-7604

Section 2 – Hazardous Identification**GHS Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Physical Hazard Not Classified
Health Hazard Not Classified

Label Elements in accordance with 29 CFR 1910.1200 (f)

Hazard Pictograms Not Classified

Hazard Statements Not applicable

Precautionary Statements: Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.

Precautionary Statements: Response

P362 Take off contaminated clothing and wash before reuse.
 P370+P378 In case of fire: use recommended media to extinguish.

Precautionary Statements: Storage

P403+P235 Store in a well-ventilated place. Keep cool.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements: Disposal

P501 Dispose of contents/container according to applicable local, national, and international regulations.

Section 3 – Composition/information on ingredients

Component	Concentration	CAS number	GHS Symbols	GHS Statements
Titanium Dioxide	45.97 – 49.97%	13463-67-7	N.A	N.A.
Carbon Black	< 00.23%	1333-86-4	N.A	N.A.
C.I. Pigment Yellow 42	06.30 – 10.30%	51274-00-1	N.A	N.A.
C.I. Pigment Red 101	< 00.95%	1309-37-1	N.A	H316-320-335
Vehicle	38.53 – 42.53%	Proprietary/Trade Secret	N.A.	N.A.
Silicon Dioxide (amorphous)	00.44 – 04.44%	68611-44-9	N.A.	N.A.
Alkyl quaternary ammonium clay	< 0.58%	Proprietary	N.A.	N.A.

All concentrations are percent by weight

The identity of components and / or exact percentage composition may have been withheld as a trade secret

Section 4 - First Aid Measures**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.**Ingestion** Do not induce vomiting. Obtain medical attention.**Notes to Physician** Treat symptomatically**Section 5 - Fire Fighting Measures****Suitable Extinguishing Media** CO 2, dry chemical, dry sand, foam.**Unsuitable Extinguishing Media** Water in a jet**Flash Point** 150 °C / 302 °F**Method** No information available**Autoignition Temperature** 190 °C / 374 °F**Explosion Limits****Upper** No information available**Lower** No information available**Sensitivity to Mechanical Impact** None expected**Sensitivity to Static Discharge** None expected**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	

Section 6 - Accidental Release Measures**Personal Precautions**

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions

Avoid release to the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage**Handling**

Wear personal protective equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until

ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 - Exposure Controls, Personal Protection

Ingredients Occupational exposure limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Titanium Dioxide	10 mg/m ³ (total dust)	N.E.	15 mg/m ³ (total dust)	N.E.
Pigment Red 101	5 mg/m ³ (respirable dust)	N.E.	5 mg/m ³ (respirable dust)	N.E.
Pigment Yellow 42	5 mg/m ³ (respirable dust)	N.E.	5 mg/m ³ (respirable dust)	N.E.
Carbon Black	3 mg/m ³ (respirable dust)	N.E.	3.5 mg/m ³ (respirable dust)	N.E.
Silicon Dioxide (amorphous)	N.E.	N.E.	20 mpp	N.E.

Legend: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protective Equipment

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.



Skin Protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Rubber, nitrile or neoprene to prevent skin contact. Wear chemical resistant gloves such as polyvinyl alcohol. If splashing is likely, wear impervious clothing and boots to prevent repeated or prolonged skin contact. Contact your supplier of PPE for additional instruction on proper use. Additionally, Viton and Safety 4H (Canada) to prevent skin contact.



Eye Protection: Wear safety glasses with side shields (or goggles).



Other Protective Equipment: No special clothing/skin protection equipment is recommended under normal conditions of anticipated use. Where use can result in skin contact, practice good personal hygiene.



Hygienic Practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

Section 9 - Physical and Chemical Properties

Physical State	Liquid / Paste
Appearance	Khaki Brown
Odor	Mild
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-9 °C / 15.8 °F
Boiling Point/Range	147 °C / 297 °F
Flash Point (closed cup Tagliabue)	150 °C / 302 °F
Evaporation Rate	No information available
Flammability or explosive limits	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available

Relative Density	1.783
Formula Weight per Volume	14.86 Pound/Gallon
VOC g/l / lb./gallon	.67 / .0056
HAPS	00.00%
Percent Volatile by Weight	00.00
Percent Volatile by Volume	00.00
Solubility	Not soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	190 °C / 374 °F
Decomposition Temperature	No information available
Viscosity Krebs Units	70 - 120

Section 10 - Stability and Reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible Materials	Strong oxidizing agents, Acids, Bases
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), oxides of nitrogen.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11 - Toxicological Information

Effect of Overexposure - Inhalation: Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful.

Effect of Overexposure - Skin Contact: Causes skin irritation. Allergic reactions are possible. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Effect of Overexposure - Eye Contact: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Effect of overexposure - Ingestion: This material may be harmful or fatal if swallowed. Irritating to mouth, throat and stomach.

Primary route(s) of entry: eye contact, ingestion, inhalation, skin absorption, skin contact

STOT - Single Exposure

Remarks: May cause respiratory irritation., May cause drowsiness and dizziness.

STOT - Repeated Exposure

Target Organs:

Carcinogenicity: The information below indicates whether each agency has listed any ingredient as a carcinogen if present at levels greater than or equal to 0.1 %.

CAS-No.	Name	NTP	OSHA	IARC
13463-67-7	Titanium Dioxide	Not labeled by NTP	Not labeled by OSHA	Group 2B
1333-86-4	Carbon Black	Not labeled by NTP	Not labeled by OSHA	Group 2B

Titanium dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

IARC: In 1995 IARC concluded, "There is *inadequate evidence* in humans for the carcinogenicity of carbon black." Based on rat inhalation studies IARC concluded that there is, "*sufficient evidence* in experimental animals for the carcinogenicity of carbon black." IARC's overall evaluation was that, "Carbon black is *possibly carcinogenic to humans (Group 2B)*". This conclusion was based on IARC's guidelines, which require such a classification if one species exhibits carcinogenicity in two or more studies. IARC performed another review in 2006, and again classified carbon black as *possibly carcinogenic to humans (Group 2B)*. In its 1987 review IARC concluded, "There is *sufficient evidence* in experimental animals for the carcinogenicity of carbon black extracts." Carbon black extracts are classified as, *possibly carcinogenic to humans (Group 2B)*.

IARC listed; Group 2B (possibly carcinogenic to humans). Not listed as a carcinogen by NTP, ACGIH, OSHA or the European Union. There are no known human carcinogenic effects related to the PAH content of carbon blacks. Recent research has shown that the PAH content of carbon blacks is not released in biological fluids and thus, is not available for biological activity.

National Toxicological Program (NTP), Occupational Safety & Health Association (OSHA), International Agency for Research on Cancer (IARC) Group 1: Carcinogenic to Humans, Group 2A: Probably Carcinogenic to Humans, Group 2B: Possibly Carcinogenic to Humans, Group 3: Not Classifiable as to its Carcinogenicity to Humans

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name	Oral LD50 (mg/kg)	Dermal LD50 (mg/kg)	Vapor LC50 (mg/L)
13463-67-7	Titanium Dioxide	>5000 (rat)	> 5000 (rabbit)	4h > 6.8 (rat)
1309-37-1	C.I. Pigment Red 101	>5000 (rat)	>5500 (rat)	No Information
1333-86-4	Carbon Black	>8000 (rat)	non-irritating (rabbit)	non-irritating (rabbit)
51274-00-1	Pigment Yellow 42	No data available	No data available	No data available
68611-44-9	Silicon Dioxide	>5000 (rat)	Non-irritating (rabbit)	4h 0.477 (rat)

Section 12 - Ecological Information

Ecotoxicity

Do not flush into surface water or sanitary sewer system.

Toxicity to fish (Acute toxicity) Data not available

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) Data not available

Toxicity to algae (Acute toxicity) Data not available

Toxicity to fish (Chronic toxicity) Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Data not available

Toxicity to bacteria (Acute) Data not available

Persistence and Degradability Data not available

Bioaccumulation/ Accumulation Data not available

Mobility Data not available

Section 13 - Disposal Considerations



Waste Disposal Methods

Hazardous waste code Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT – Not Regulated

DOT Proper Shipping Name: Paint Related Material Non Hazardous

DOT Hazard Class: Not Regulated

DOT UN/NA Number: Not Regulated

This material is not regulated as a dangerous good and can be shipped as a NON HAZARDOUS

Section 15 - Regulatory Information

FEDERAL REGULATIONS:

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 requires notification of the National Response Center concerning release of quantities of "Hazardous Substances" equal to or greater than the reportable quantities (RQs) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product subject to this statute are:

Chemical Name	CAS Number	Pct. by Wt. RQ (lbs)
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SARA 302 Extremely Hazardous Material

SARA 304 CERCLA Product

Chemical Name	CAS Number	Pct by Wt. RQ (lbs)
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SARA 311/312 Hazardous Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA (313) Components in concentrations above the de minimus levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements in section 313 of SARA.

Name	CAS-No.
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State Regulations

New Jersey Right-to-Know:

Titanium Dioxide	13463-67-7
C.I. Pigment Red 101	1309-37-1
Carbon Black	1333-86-4

Pennsylvania Right-to-Know:

Titanium Dioxide	13463-67-7
C.I. Pigment Red 101	1309-37-1
Carbon Black	1333-86-4

California Proposition 65 Carcinogens

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7

The listing is for titanium dioxide (airborne, unbound particles of respirable size) and does not cover titanium dioxide when it remains within a product matrix.

Carbon Black	1333-86-4
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"Carbon black (airborne, unbound particles of respirable size)" is a California Proposition 65 listed substance. Please note that all three listing qualifiers (airborne, unbound (not bound within a matrix), and respirable size (10 micrometers or less in diameter)) must be met for this substance to be considered a Proposition 65 substance.

California Proposition 65 Reproductive Toxins

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

Country	Regulatory list	Notification
USA	TSCA	This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.
EU	EINECS	This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).
Canada	DSL	This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).
Australia	AICS	Not determined.
Japan	ENCS	Not determined.
South Korea	ECL	This product, or its components, are listed on or are exempt from the Korean Chemical Substance List (ECL).

China	SEPA	This product, or its components, are listed on or are exempt from the Chinese Chemical Substance List (SEPA).
Philippines	PICCS	Not determined.

No other Regulatory Information!

Section 16 - Other Information

HMIS® Hazard Ratings: Health – 1, Flammability - 1, Physical Hazard - 0
HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

Prepared By Environmental, Health and Safety Department
Email: info@espinc.us

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Replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

For Industrial use Only: This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by, the general public.

NON-WARRANTY: Any recommendation of PPI Tech Inc contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, PPI Tech Inc makes no warranty or representation with respect thereto. Use or application of any PPI Tech Inc product is at the discretion of the Buyer without liability or obligation whatsoever of PPI Tech Inc.