#### **Environmental precautions**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	Form
BARIUM SULFATE (CAS 7727-43-7)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
- ,		15 mg/m <sup>3</sup>	Total dust.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m <sup>3</sup>	Total dust.
TRIBUTYL PHOSPHATE (CAS 126-73-8)	PEL	5 mg/m <sup>3</sup>	
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m³	Inhalable fraction.
Ethylene Glycol (CAS 107-21-1)	Ceiling	100 mg/m <sup>3</sup>	Aerosol.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	
TRIBUTYL PHOSPHATE (CAS 126-73-8)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m <sup>3</sup>	Respirable.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10 mg/m <sup>3</sup>	Total
TRIBUTYL PHOSPHATE (CAS 126-73-8)	TWA	2.5 mg/m <sup>3</sup>	
(		0.2 ppm	
US. Workplace Environme	ntal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Diethylene Glycol (CAS 111-46-6)	TWA	10 mg/m <sup>3</sup>	
Propylene Glycol (CAS 57-55-6)	TWA	10 mg/m <sup>3</sup>	Aerosol.
logical limit values	No biological exposure limits noted for the ing	gredient(s).	
propriate engineering atrols	Good general ventilation (typically 10 air cha should be matched to conditions. If applicabl or other engineering controls to maintain airb exposure limits have not been established, m	e, use process enclosu orne levels below reco	res, local exhaust ventilation, mmended exposure limits. If

### Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

For prolonged or repeated skin contact use suitable protective gloves. Hand protection

Wear suitable protective clothing. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state **Form** Liquid. Color Green.

Not available. Odor Odor threshold Not available. Not available. Ha Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

11.26 lbs/gal Density

Not available. Percent volatile 47.98 % Flammability class

1.35 Specific gravity

VOC 468.815822 g/l Regulatory estimated

422.799904 g/l Material estimated 3.912341 lbs/gal Regulatory estimated 3.528331 lbs/gal Material estimated

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

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## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation. Prolonged

inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

## **Acute toxicity**

Diethylene Glycol (CAS 111-46-6)   Acute   Dermal   LD50   Rabbit   11890 mg/kg   Oral   LD50   Guinea pig   8700 mg/kg   Rabbit   26.9 g/kg   Rat   12565 mg/kg   Ethylene Glycol (CAS 107-21-1)   Acute   Dermal   LD50   Guinea pig   8.2 g/kg   Rat   2565 mg/kg   Ethylene Glycol (CAS 107-21-1)   Acute   Dermal   LD50   Rabbit   9530 mg/kg   Rat   28.9 g/kg   28.9 g/kg	Components	Species	Test Results	
Dermal   LD50	Diethylene Glycol (CAS 11	1-46-6)		
LD50       Rabbit       11890 mg/kg         Oral       UD50       Guinea pig       8700 mg/kg         LD50       Mouse       13.3 g/kg         Rabbit       26.9 g/kg         Embles       Rat       12565 mg/kg         Ethylene Glycol (CAS 107-21-1)         Acute         Dermal       1       1         LD50       Rabbit       9530 mg/kg         Oral         LD50       Guinea pig       8.2 g/kg         Mouse       14.6 g/kg         Acute         Oral         LD50       Guinea pig       18.4 g/kg         Mouse       23.9 g/kg         Mouse       23.9 g/kg         RIBUTYL PHOSPHATE (CAS 126-T-81-8)         Acute         Dermal       23.9 g/kg         LD50       Rabbit       3100 mg/kg         LD50       Rabbit       3100 mg/kg         Inhabation       23 mg/l, 6 Hours         LC50       Rabit       123 mg/l, 6 Hours         Inhabation       124 mg/l       124 mg/l       124 mg/l       124 mg/l         LD				
Oral         Common of Mouse         8700 mg/kg           LD50         Guinea pig         8700 mg/kg           Mouse         13.3 g/kg           abbit         26.9 g/kg           Ethylene Glycol (CAS 107-21-1)         12565 mg/kg           Ethylene Blycol (CAS 107-21-1)         Secure           Dermal         LD50         Rabbit         9530 mg/kg           LD50         Guinea pig         8.2 g/kg           LD50         Rat         5.89 g/kg           Propylene Glycol (CAS 57-55-6)         8.4 g/kg           Acute         70ral         18.4 g/kg           LD50         Mouse         23.9 g/kg           LD50         Mouse         23.9 g/kg           LD50         Rat         30 g/kg           TRIBUTY PHOSPHATE (CAS 126-7-8)         18.4 g/kg           Acute         20 g/kg           Dermal         15050         8abit         > 3100 mg/kg           LD50         Rabit         > 3100 mg/kg           LD50         Rabit         23 mg/l, 6 Hours           LD50         Rabit         18 mg/l, 6 Hours				
LD50   Mouse   13.3 g/kg   13.3 g/kg   26.9 g/kg   2	LD50	Rabbit	11890 mg/kg	
Mouse   Rabbit   Rabbit   26.9 g/kg				
Rabbit   Rabbit   26.9 g/kg	LD50			
Rat   1265 mg/kg   1265 mg/kg		Mouse	13.3 g/kg	
Ethylene Glycol (CAS 107-21-1)    Acute   Dermal   LD50   Rabbit   9530 mg/kg     Oral   LD50   Guinea pig   8.2 g/kg     LD50   Rat   5.89 g/kg     Propylene Glycol (CAS 57-55-6)   Rat   5.89 g/kg     Oral   LD50   Guinea pig   18.4 g/kg     LD50   Rabbit   18 g/kg     Rat   30 g/kg     Rat   30 g/kg     TRIBUTYL PHOSPHATE (CAS 126-73-8)     Acute   Dermal   LD50   Rabbit   5.3100 mg/kg     Inhalation   LD50   Rat   123 mg/l, 6 Hours     Inhalation   LC50   Rat   123 mg/l, 6 Hours     Oral   LD50   Hen   1863 mg/kg		Rabbit	26.9 g/kg	
Acute           Dermal         LD50         Rabbit         9530 mg/kg           Oral         LD50         Guinea pig         8.2 g/kg           LD50         Mouse         14.6 g/kg           Propylene Glycol (CAS 57-55-6)         Rat         5.89 g/kg           Acute         70ral         V           LD50         Guinea pig         18.4 g/kg           Mouse         23.9 g/kg           Rabbit         18 g/kg           Rat         30 g/kg           TRIBUTYL PHOSPHATE (CAS 126*5-8)           Acute           Dermal         LD50         Rabbit         > 3100 mg/kg           LD50         Rabbit         > 3100 mg/kg           Inhalation         LC50         Rat         123 mg/l, 6 Hours           Oral         LD50         Rat         1863 mg/kg		Rat	12565 mg/kg	
Dermal           LD50         Rabbit         9530 mg/kg           Oral           LD50         Guinea pig         8.2 g/kg           Mouse         14.6 g/kg           Fropylene Glycol (CAS 57-55-6)         7.89 g/kg           Acute           Oral         18.4 g/kg           LD50         Mouse         23.9 g/kg           Abbit         18 g/kg           Rabbit         18 g/kg           TRIBUTYL PHOSPHATE (CAS 126-73-8)         7.84 g/kg           Acute         20 g/kg           Dermal         LD50         Rabbit         > 3100 mg/kg           Inhalation         LC50         Rat         123 mg/l, 6 Hours           Cral         LD50         Hen         1863 mg/kg	Ethylene Glycol (CAS 107-	-21-1)		
D50	<u>Acute</u>			
Oral           LD50         Guinea pig         8.2 g/kg           Mouse         14.6 g/kg           Fropylene Glycol (CAS 57-55-6)         5.89 g/kg           Acute           Oral         UD50         Guinea pig         18.4 g/kg           Mouse         23.9 g/kg           Rabbit         18 g/kg           Rat         30 g/kg           TRIBUTYL PHOSPHATE (CAS 126-7-8)           Acute         Dermal           LD50         Rabbit         > 3100 mg/kg           Inhalation         LC50         Rat         123 mg/l, 6 Hours           Oral         LD50         Hen         1863 mg/kg	Dermal			
LD50   Guinea pig   8.2 g/kg	LD50	Rabbit	9530 mg/kg	
Mouse   14.6 g/kg				
Rat   5.89 g/kg	LD50	Guinea pig	8.2 g/kg	
Acute         Acute         Oral       18.4 g/kg         LD50       Guinea pig       18.4 g/kg         Mouse       23.9 g/kg         Rabbit       18 g/kg         Rat       30 g/kg         TRIBUTYL PHOSPHATE (CAS 126-73-8)         Acute         Dermal       LD50       Rabbit       > 3100 mg/kg         Inhalation       LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg		Mouse	14.6 g/kg	
Acute         Oral         LD50       Guinea pig       18.4 g/kg         Mouse       23.9 g/kg         Rabbit       18 g/kg         Rat       30 g/kg         TRIBUTYL PHOSPHATE (CAS 126-73-8)         Acute         Dermal       LD50       Rabbit       > 3100 mg/kg         Inhalation       LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg		Rat	5.89 g/kg	
Oral         LD50       Guinea pig       18.4 g/kg         Mouse       23.9 g/kg         Rabbit       18 g/kg         Rat       30 g/kg         TRIBUTYL PHOSPHATE (CAS 126-73-8)         Acute         Dermal       LD50       Rabbit       > 3100 mg/kg         Inhalation       LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg	Propylene Glycol (CAS 57	-55-6)		
LD50       Guinea pig       18.4 g/kg         Mouse       23.9 g/kg         Rabbit       18 g/kg         Rat       30 g/kg         TRIBUTYL PHOSPHATE (CAS 126-73-8)         Acute         Dermal       LD50       Rabbit       > 3100 mg/kg         Inhalation       LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg	<u>Acute</u>			
Mouse   23.9 g/kg   Rabbit   18 g/kg   30 g/kg   Rat				
Rabbit   Rabbit   Rabbit   Rat   Rabbit   Rat   Rabbit   Rat   Rabbit   Rat   Rabbit   Rat   Rabbit   Rabbit	LD50	Guinea pig	18.4 g/kg	
Rat 30 g/kg  TRIBUTYL PHOSPHATE (CAS 126-73-8)  Acute Dermal LD50 Rabbit > 3100 mg/kg  Inhalation LC50 Rat 123 mg/l, 6 Hours  Oral LD50 Hen 1863 mg/kg		Mouse	23.9 g/kg	
TRIBUTYL PHOSPHATE (CAS 126-73-8)         Acute         Dermal       Pabbit       > 3100 mg/kg         Inhalation       Inhalation       I 23 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg		Rabbit	18 g/kg	
Acute         Dermal       > 3100 mg/kg         LD50       Rabbit       > 3100 mg/kg         Inhalation         LC50       Rat       123 mg/l, 6 Hours         Oral         LD50       Hen       1863 mg/kg		Rat	30 g/kg	
Dermal           LD50         Rabbit         > 3100 mg/kg           Inhalation           LC50         Rat         123 mg/l, 6 Hours           Oral           LD50         Hen         1863 mg/kg	TRIBUTYL PHOSPHATE	(CAS 126-73-8)		
LD50       Rabbit       > 3100 mg/kg         Inhalation       LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg	<u>Acute</u>			
Inhalation         LC50       Rat       123 mg/l, 6 Hours         Oral         LD50       Hen       1863 mg/kg	Dermal			
LC50       Rat       123 mg/l, 6 Hours         Oral       LD50       Hen       1863 mg/kg	LD50	Rabbit	> 3100 mg/kg	
Oral LD50 Hen 1863 mg/kg	Inhalation			
LD50 Hen 1863 mg/kg	LC50	Rat	123 mg/l, 6 Hours	
	Oral			
Mouse 1189 mg/kg	LD50	Hen	1863 mg/kg	
		Mouse	1189 mg/kg	

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**Test Results** Components **Species** Rat 3 g/kg

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not available.

**Chronic effects** 

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes

damage to organs through prolonged or repeated exposure.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
BARIUM SULFATE (C	CAS 7727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
Diethylene Glycol (CA	S 111-46-6)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/l, 96 hours
Ethylene Glycol (CAS	107-21-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	8050 mg/l, 96 hours
Propylene Glycol (CA	S 57-55-6)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours
Titanium Dioxide (CAS	S 13463-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
TRIBUTYL PHOSPHA	ATE (CAS 126-73-8)		
Aquatic	·		
Fish	LC50	Fathead minnow (Pimephales promelas)	1 - 10 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

Ethylene Glycol -1.36Propylene Glycol -0.92

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

Not regulated as dangerous goods.

ΙΔΤΔ

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

BARIUM SULFATE (CAS 7727-43-7) Listed. Ethylene Glycol (CAS 107-21-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Ethylene Glycol 107-21-1 5 to <10

MMaterial name: STREETBOND COLORANT AVOCADO

# 16. Other information, including date of preparation or last revision

**Revision date** 5/03/2019

Version # 01

Health: 1\* **HMIS®** ratings

Flammability: 0 Physical hazard: 0

Health: 0

Flammability: 0 NFPA ratings

Instability: 0

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best **Disclaimer** 

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license of valid patents.

**Revision Information** Product and Company Identification: Converted to Siplast SDS

Material name: STREETBOND COLORANT AVOCADO

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