BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 1 of 16 Print Date 03/13/2019

SAFETY DATA SHEET

BROWN

Section 1. Identification	n	
GHS product identifier	:	BROWN
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10287791
Product type	:	solid
<u>Relevant identified uses of the subs</u> Product use	tance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	Mesa Industries 230 N 48th Avenue Phoenix, AZ 85043
		(602) 269-3199
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

GHS label elements

BROWN

Version Number 1.1 Revision Date 03/12/2019



Page 2 of 16

Print Date 03/13/2019

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10287791

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	3 - 5	13463-67-7
Carbon black	3 - 5	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

:

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the



BROWN

Version Number 1.1	Page 3 of 16
Revision Date 03/12/2019	Print Date 03/13/2019

		upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical atte	entio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

BROWN

Version Number 1.1 Revision Date 03/12/2019



Page 4 of 16 Print Date 03/13/2019

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material
4/16		

BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 5 of 16

Print Date 03/13/2019

and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	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. 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

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium dioxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
Carbon black	OSHA PEL 1989 (1989-03-01) TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3

BROWN



Page 6 of 16

Version Number 1.1 Revision Date 03/12/2019 Print Date 03/13/2019

		NIOSH REL (1994-06-01) TWA 3.5 mg/m3 TWA 0.1 mgPAH/m ³ ACGIH TLV (2010-12-06) TWA 3 mg/m3 Form: Inhalable fraction
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used
		when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 7 of 16 Print Date 03/13/2019

Section 9. Physical and chemical properties

Appearance

Physical state	:	solid [Pellets.]
Color	:	BROWN
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).	
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.	
Incompatible materials	:	Keep away from strong acids. Oxidizer.	
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous decomposition	
7/16			

BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 8 of 16 Print Date 03/13/2019

products

products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
Remarks - Oral:	No applicable toxi	city data		
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			
Conclusion/Summary	: Mixtu	re.Not fully tested.		

Conclusion/Summary

Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
Titanium dioxide	Skin - Mild	Human		72 hrs	-	
	irritant					
Conclusion/Summary						
Skin	: N	Aixture.Not fu	ally tested.			
Eyes	: N	Aixture.Not fu	ally tested.			
Respiratory	: N	Aixture.Not fu	ally tested.			
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: N	Aixture.Not fu	ally tested.			
Respiratory	: N	Aixture.Not fu	ally tested.			
Mutagenicity						
Conclusion/Summary	: N	Aixture.Not fu	ally tested.			
Carcinogenicity						
Carcinogenicity						



BROWN



Version Number 1	.1
Revision Date 03	/12/2019

Page 9 of 16 Print Date 03/13/2019

Conclusion/Summary <u>Classification</u>	:	Mixture.Not fu	lly tested.
Product/ingredient	OSHA	IARC	NTP
name		_	
Titanium dioxide		2B	
Carbon black		2B	
<u>Reproductive toxicity</u> Conclusion/Summary	:	Mixture.Not fu	llv tested
Conclusion/Summary	•	1011210110110110	
Teratogenicity			
Conclusion/Summary	:	Mixture.Not fu	lly tested.
Specific target organ toxicit Not available.	y (single expo	<u>sure)</u>	
Specific target organ toxicity Not available.	y (repeated ex	<u>kposure)</u>	
Aspiration hazard Not available.			
Information on likely routes exposure	of :	Not available.	
Potential acute health effects			
Eye contact	:	No known sign	ificant effects or critical hazards.
Inhalation			ificant effects or critical hazards.
Skin contact			ificant effects or critical hazards.
Ingestion	:	No known sign	ificant effects or critical hazards.
Symptoms related to the phy	sical, chemic	al and toxicolog	zical characteristics
Eye contact	:	No specific data	ì.
Inhalation		No specific data	
Skin contact		No specific data	
Ingestion		No specific data	
-		-	from short and long-term exposure

Short term exposure

BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 10 of 16

Print Date 03/13/2019

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			



Version Number 1.1 Revision Date 03/12/2019 Page 11 of 16 Print Date 03/13/2019

plants: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Carbon black Acute - Fish: No applicable toxicity data Remarks - Acute - Fish: No applicable toxicity data 48 h Remarks - Acute - Aquatic invertebrates.: Daphnia 48 h Remarks - Acute - Aquatic invertebrates.: No applicable toxicity data 48 h Remarks - Acute - Aquatic invertebrates.: Acute Daphnia 48 h Remarks - Acute - Aquatic invertebrates.: No applicable toxicity data 48 h Remarks - Chronic - Fish: No applicable toxicity data 50 applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data 50 applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data 50 applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data 50 applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Invertebrates.: 50 applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data 50 applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Invertebrates.: 50 applicable toxicity data Re	Remarks - Acute - Aquatic	No applica	ble toxicity data		
Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Carbon black No applicable toxicity data Remarks - Acute - Fish: No applicable toxicity data Acute EC50 37.563 Mg/l Fresh water Aquatic invertebrates. 48 h Remarks - Acute - Aquatic invertebrates.: Acute Daphnia Remarks - Acute - Aquatic invertebrates.: No applicable toxicity data Acute Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data No applicable toxicity data BROWN Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix.	*				
Aquatic invertebrates.: Image: Conclusion/Summary Carbon black Remarks - Acute - Fish: No applicable toxicity data Acute EC50 37.563 Mg/l Fresh water Aquatic invertebrates. 48 h Remarks - Acute - Aquatic invertebrates.: Acute Acute Invertebrates.: Acute Acute 48 h Remarks - Acute - Aquatic invertebrates.: Acute Acute 48 h Remarks - Acute - Aquatic invertebrates.: No applicable toxicity data Image: Acute - Aquatic invertebrates.: Imag		**	•		
Carbon black No applicable toxicity data Remarks - Acute - Aquatic invertebrates.: Acute EC50 37.563 Mg/l Fresh water Aquatic invertebrates. Remarks - Acute - Aquatic invertebrates.: Acute Baphnia Remarks - Acute - Aquatic plants: No applicable toxicity data Image: State		No application	ble toxicity data		
Remarks - Acute - Fish: No applicable toxicity data Acute EC50 37.563 Mg/l Fresh Aquatic invertebrates. Water Daphnia Remarks - Acute - Aquatic invertebrates.: Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data BROWN Chemicals are not readily available as they are bound within the polymer matrix. invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the					
Acute EC50 37.563 Mg/l Fresh waterAquatic invertebrates. Daphnia48 hRemarks - Acute - Aquatic invertebrates.:AcuteRemarks - Acute - Aquatic plants:No applicable toxicity dataRemarks - Chronic - Fish: Aquatic invertebrates.:No applicable toxicity dataRemarks - Chronic - Fish: Aquatic invertebrates.:No applicable toxicity dataRemarks - Chronic - Aquatic invertebrates.:No applicable toxicity dataBROWNChemicals are not readily available as they are bound within the polymer matrix.Conclusion/Summary: Chemicals are not readily available as they are bound within the polymer matrix.Persistence and degradability: Chemicals are not readily available as they are bound within the polymer matrix.	Carbon black				
water Daphnia Remarks - Acute - Aquatic invertebrates.: Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Aquatic invertebrates.: No applicable toxicity data BROWN Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix.	Remarks - Acute - Fish:	No applical	ble toxicity data		
Remarks - Acute - Aquatic invertebrates.: Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data BROWN Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the Conclusion/Summary : Chemicals are not readily available as they are bound within the		Acute EC5	0 37.563 Mg/l Fresh	Aquatic invertebrates.	48 h
invertebrates.:Remarks - Acute - Aquatic plants:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic - Aquatic invertebrates.:No applicable toxicity dataBROWNRemarks - Acute - Aquatic invertebrates.:Conclusion/Summary:Conclusion/Summary:Conclusion/Summary:Conclusion/Summary:Chemicals are not readily available as they are bound within the polymer matrix.Conclusion/Summary:Chemicals are not readily available as they are bound within the polymer matrix.Conclusion/Summary:Chemicals are not readily available as they are bound within the polymer matrix.		water		Daphnia	
Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data BROWN Chemicals are not readily available as they are bound within the polymer matrix. Invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix.	Remarks - Acute - Aquatic	Acute	Acute		
plants: No Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data BROWN Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix.	invertebrates.:				
Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - No applicable toxicity data Aquatic invertebrates.: No applicable toxicity data BROWN Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the Conclusion/Summary : Chemicals are not readily available as they are bound within the Persistence and degradability : Chemicals are not readily available as they are bound within the	Remarks - Acute - Aquatic	No applicat	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data BROWN Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the Conclusion/Summary : Chemicals are not readily available as they are bound within the Conclusion/Summary : Chemicals are not readily available as they are bound within the	plants:				
Aquatic invertebrates.: Image: Conclusion/Summary Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix.	Remarks - Chronic - Fish:	No applicat	ble toxicity data		
BROWN Chemicals are not readily available as they are bound within the polymer matrix. Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the	Remarks - Chronic -	No applicat	ble toxicity data		
Remarks - Acute - Aquatic invertebrates.: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary : Chemicals are not readily available as they are bound within the	Aquatic invertebrates.:				
invertebrates.: Image: Conclusion/Summary Image: Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability Image: Chemicals are not readily available as they are bound within the polymer matrix. Conclusion/Summary Image: Chemicals are not readily available as they are bound within the polymer matrix.	BROWN				
Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix. Persistence and degradability : Chemicals are not readily available as they are bound within the Conclusion/Summary : Chemicals are not readily available as they are bound within the	Remarks - Acute - Aquatic	Chemicals	are not readily available	as they are bound within the	e polymer matrix.
Persistence and degradability Conclusion/Summary : Chemicals are not readily available as they are bound within the	invertebrates.:				
Persistence and degradability Conclusion/Summary : Chemicals are not readily available as they are bound within the	Conclusion/Summary	:		ly available as they are bou	nd within the
Conclusion/Summary : Chemicals are not readily available as they are bound within the			polymer matrix.		
Conclusion/Summary : Chemicals are not readily available as they are bound within the					
	Persistence and degradability	<u>v</u>			
	~				
polymer matrix.	Conclusion/Summary	:		ly available as they are bou	ind within the
			polymer matrix.		
Bioaccumulative potential	Biogeoneulative notential				
Not available.					
NOT AVAILABLE.	Not available.				
Mobility in soil	Mobility in soil				
	Mobility in son				
Soil/water partition coefficient : Not available.	Soil/water partition coefficie	ent :	Not available.		
(KOC)					
Other adverse effects : No known significant effects or critical hazards.		:	No known significant e	ffects or critical hazards.	
Section 13. Disposal considerations	Section 13 Disnos	al consi	derations		
	Section 15. Dispos				
Disposal methods : The generation of waste should be avoided or minimized wherever	Disposal methods	•	The generation of waste	e should be avoided or mini	mized wherever



BROWN

Version Number 1.1 Revision Date 03/12/2019



protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations :	United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed
----------------------------	---

BROWN



Version Number 1.1 Revision Date 03/12/2019		Page 13 of 16 Print Date 03/13/2019		
Revision Date 03/12/2019		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc ferrite brown spinel (C.I. Pigment Yellow 119) Nickel Chromium Arsenic United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed		
		United States - Department of commerce - Precursor chemical: Not listed		
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Listed		
Clean Air Act Section 602 Class I Substances	:	Not listed		
Clean Air Act Section 602 Class II Substances	:	Not listed		
DEA List I Chemicals (Precursor Chemicals)	:	Not listed		
DEA List II Chemicals (Essential Chemicals)	:	Not listed		
US. EPA CERCLA Hazardous Subst	US. EPA CERCLA Hazardous Substances (40 CFR 302)			
not applicable SARA 311/312				

Classification

Not applicable.

:

Composition/information on ingredients

No products were found.





Version Number 1.1 Revision Date 03/12/2019

Page 14 of 16 Print Date 03/13/2019

Name	%	Classification
Carbon black	>= 3 - <= 5	CARCINOGENICITY - Category 2
Titanium dioxide	>= 3 - <= 5	CARCINOGENICITY - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting	Zinc ferrite brown spinel	68187-51-9	25 - 50
requirements	(C.I. Pigment Yellow 119)		
Supplier notification	Zinc ferrite brown spinel	68187-51-9	25 - 50
	(C.I. Pigment Yellow 119)		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Titanium dioxide
		Carbon black
		Iron oxide
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)
Pennsylvania	:	The following components are listed:
		Titanium dioxide
		Carbon black
		Iron oxide
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)

California Prop. 65

WARNING: This product can expose you to chemicals including Carbon black, Titanium dioxide, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	No.	No.
Carbon black	No.	No.

BROWN

Version Number 1.1 Revision Date 03/12/2019



Page 15 of 16
Print Date 03/13/2019

Canada inventory	:	All components are listed or exempted.
International regulations		
<u>Inventory list</u>		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<u>IIIStol</u>		
Date of printing	:	03/13/2019
Date of issue/Date of revision	:	03/12/2019
Date of previous issue	:	08/02/2018
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate
•		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals

BROWN

Version Number 1.1 Revision Date 03/12/2019

Page 16 of 16 Print Date 03/13/2019

IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.

References

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.