ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 1 of 17 Print Date 08/19/2022

SAFETY DATA SHEET

ABS METALLIC SILVER V2

Section 1. Identification	n	
GHS product identifier	:	ABS METALLIC SILVER V2
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10365809
Product type	:	solid
Relevant identified uses of the subs	tance	or mixture and uses advised against
Product use	:	Industrial applications.
Supplier's details	:	AVIENT CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
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		
Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022

ÀVIENT

Page 2 of 17 Print Date 08/19/2022

Precautionary statements

	:	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.
		Not available.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10365809

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	>= 1 - <= 3	13463-67-7
Ethyl benzene	> 0 - <= 0.3	100-41-4
Styrene	> 0 - <= 0.3	100-42-5

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 upper and lower eyelids. Check for and remove any contact lenses.
Inhalation	:	Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable

ABS METALLIC SILVER V2



Version Number 1.0	Page 3 of 17
Revision Date 08/18/2022	Print Date 08/19/2022

		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 Inhalation Skin contact 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	ttention 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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

suitable training.

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 4 of 17 Print Date 08/19/2022

Unsuitable extinguishing media	:	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 containme	nt ai	nd 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 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.

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022

AVIENT

Page 5 of 17 Print Date 08/19/2022

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
Ethyl benzene	OSHA PEL 1989 (1989-03-01) TWA 435 mg/m3 100 ppm STEL 545 mg/m3 125 ppm OSHA PEL (1993-06-30) TWA 435 mg/m3 100 ppm
Styrene	ACGIH TLV (2020-03-01) Ototoxicant TWA 10 ppm STEL 20 ppm

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 6 of 17 Print Date 08/19/2022

		NIOSH REL (1994-06-01)
		TWA 215 mg/m3 50 ppm
		STEL 425 mg/m3 100 ppm
		OSHA PEL 1989 (1989-03-01)
		TWA 215 mg/m3 50 ppm
		STEL 425 mg/m3 100 ppm
		OSHA PEL Z2 (1993-06-30) TWA 100 ppm
		CEIL 200 ppm
		AMP 600 ppm
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker
Appropriate engineering controls	•	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	:	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.
Eye/face protection	:	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
200 provon	·	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
		6/17

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022

ÀVIENT

Page 7 of 17 Print Date 08/19/2022

Respiratory protection

product.

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.

Section 9. Physical and chemical properties

:

Appearance

Physical state	:	solid [Pellets.]
Color	:	GREY
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	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	•	ivot available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
viscosity	•	Kinematic: Not available.
		Kinematic: Not available.
Aerosol product		
Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time		Not available.
equivalent		
Enclosed space ignition -	:	Not available.

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 8 of 17 Print Date 08/19/2022

Deflagration density		
Flame height	:	Not available.
Flame duration	:	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 products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Titanium oxide (TiO2)				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	Dusts and mists			
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Benzene, ethyl-				
	LD50 Oral	Rat	3,500 mg/kg	-
	LD50 Dermal	Rabbit	5,000 mg/kg	-
Styrene				
	LD50 Oral	Rat	2,650 mg/kg	-
	LC50 Inhalation	Rat	2,770 ppm	4 h
	Gas.			
	LC50 Inhalation	Rat	11.8 Mg/l	4 h
	Vapor			

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzene, ethyl-	Skin - Mild irritant	Rabbit	-	24 hrs	-



ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022 Page 9 of 17 Print Date 08/19/2022

	Eyes - Severe irritant	Rabbit	-		-
Styrene	Eyes - Mild irritant	Human	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-

Conclusion/Summary Skin Eyes Respiratory <u>Sensitization</u>	:	Mixture.Not fully tested. Mixture.Not fully tested. Mixture.Not fully tested.
Conclusion/Summary Skin Respiratory	:	Mixture.Not fully tested. Mixture.Not fully tested.
<u>Mutagenicity</u> Conclusion/Summary Carcinogenicity	:	Mixture.Not fully tested.
Conclusion/Summary	:	Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium oxide (TiO2)	-	2B	-
Benzene, ethyl-	-	2B	-
Styrene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure) Not available.

Specific target organ toxicity (repeated exposure)

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



	Pa	ge	10	of	17
Print	Date	08/	/19	/20	22

Not available.

Aspiration hazard

Name		Result	
Benzene, ethyl-		ASPIRATION HAZARD - Category 1	
exposure	: Not available		
Potential acute health effects			
Inhalation Skin contact	No known si No known si	gnificant effects or critical hazards. gnificant effects or critical hazards. gnificant effects or critical hazards. gnificant effects or critical hazards.	
Symptoms related to the physical, che	mical and toxicol	logical characteristics	
Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.Delayed and immediate effects and also chronic effects from short and long term exposure			
Delayed and immediate effects and als	so enronic effects	from short and long term exposure	
Short term exposure			
	Not available Not available	-	
Long term exposure			
Potential immediate effects Potential delayed effects	Not availableNot available	-	
Potential chronic health effects			
Conclusion/Summary	: Mixture.Not	fully tested.	
Carcinogenicity Mutagenicity Teratogenicity Developmental effects	 No known si No known si No known si No known si 	gnificant effects or critical hazards. gnificant effects or critical hazards.	

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 11 of 17 Print Date 08/19/2022

Numerical measures of toxicity

Acute toxicity estimates N/A

Other 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.

Section 12. Ecological information

:

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium oxide (TiO2)	·		
	Acute LC50 > 1,000 Mg/l	Fish - Fundulus heteroclitus	96 h
	Marine water		
	Acute LC50 3 Mg/l Fresh water	Crustaceans - Ceriodaphnia	48 h
		dubia	
	Acute LC50 6.5 Mg/l Fresh	Daphnia - Daphnia pulex	48 h
	water		
Benzene, ethyl-			
	Acute LC50 4.2 Mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water		
	Acute EC50 6.53 Mg/l Marine	Crustaceans - Artemia sp.	48 h
	water		
	Acute EC50 2.93 Mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute EC50 4.9 Mg/l Marine	Algae - Skeletonema costatum	72 h
	water		
	Acute EC50 7.7 Mg/l Marine	Algae - Skeletonema costatum	96 h
	water		
Styrene			
	Acute LC50 4.02 Mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 0.0047 Mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute LC50 52 Mg/l Marine	Crustaceans - Artemia salina	48 h
	water		
	Acute EC50 78 Mg/l Marine	Algae - Skeletonema costatum	96 h
	water		
ABS METALLIC SILVER V	2		

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022

🕷 🕺 🕷 🎇 🕷

Page 12 of 17 Print Date 08/19/2022

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.	
<u>Persistence and degradability</u> 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.	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Benzene, ethyl-	3.6	-	low
Styrene	0.35	13.49	low

Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental 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.

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 13 of 17 Print Date 08/19/2022

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 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
	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(d) - Health and safety studies: Not listed
	United States - EPA Clean water act (CWA) section 307 - Priority
	pollutants: Listed Ethyl benzene
	United States - EPA Clean water act (CWA) section 311 -
	Hazardous substances: Listed
	13/17

13/17

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 14 of 17 Print Date 08/19/2022

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	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor		Not listed
Chemicals)	•	
DEA List II Chemicals (Essential Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

No products were found.

Name	%	Classification
Titanium oxide (TiO2)	>= 1 - <= 3	CARCINOGENICITY - Category 2
Benzene, ethyl-	> 0 - <= 0.3	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Styrene	> 0 - <= 0.3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

Form R - Reporting requirements



ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022 Page 15 of 17 Print Date 08/19/2022

Product name	CAS number	%
Aluminum	7429-90-5	>= 25 - <= 50
Ethyl benzene	100-41-4	> 0 - <= 0.3
Styrene	100-42-5	> 0 - <= 0.3

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.

Not applicable.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	The following components are listed: Ethyl benzene Styrene
New Jersey	:	The following components are listed: Aluminum Mica Titanium dioxide Ethyl benzene Styrene
Pennsylvania	:	The following components are listed: Aluminum
		Mica
		Titanium dioxide
		Ethyl benzene

Styrene

California Prop. 65

WARNING: This product can expose you to chemicals including Miscellaneous compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including 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
Miscellaneous compounds	-	-
Titanium dioxide	-	-
Ethyl benzene	Yes.	-

ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022

Page 16 of 17 Print Date 08/19/2022

Styrene		Yes.	-
United States inventory (TSCA 8b)		All components are active or exempted.	
Cinter States inventory (15CA 00)	•	The components are derive or exempted.	
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	:	All components are listed or exempted.	
New Zealand	:	Not determined.	
Philippines	:	All components are listed or exempted.	
Republic of Korea	:	All components are listed or exempted.	
Taiwan	:	Not determined.	
Turkey	:	Not determined.	
United States	:	All components are active 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

		10/17
Key to abbreviations	:	ATE = Acute Toxicity Estimate
Version	:	1.0
Date of previous issue	:	00/00/0000
Date of issue/Date of revision	:	08/18/2022
Date of printing	:	08/19/2022
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ABS METALLIC SILVER V2

Version Number 1.0 Revision Date 08/18/2022



Page 17 of 17 Print Date 08/19/2022

BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = 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.