#### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022



Page 1 of 14 Print Date 12/21/2022

# SAFETY DATA SHEET

#### X GT-41096-0001A-B

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	: : : : : : : : : : : : : : : : : : : :	X GT-41096-0001A-B Mixture Mixture EM10056046 solid
<u>Relevant identified uses of the subst</u> Product use	ance :	or mixture and uses advised against Industrial applications.
Supplier's details	:	AVIENT CORPORATION 33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
<b>Emergency telephone number</b> (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.

#### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **XAVIENT**

Page 2 of 14 Print Date 12/21/2022

#### **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	:	EM10056046

#### CAS number/other identifiers

Ingredient name	%	CAS number
Tungsten	>= 75 - <= 90	7440-33-7

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. 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.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	<ul> <li>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been</li> </ul>
	0/4.4

## X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022



Page 3 of 14 Print Date 12/21/2022

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	<ul> <li>No known significant effects or critical hazards.</li> </ul>
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	attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ . 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 metal oxide/oxides

## X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **ÀVIENT**

Page 4 of 14 Print Date 12/21/2022

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	ent ar	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.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational	:	Eating, drinking and smoking should be prohibited in areas where this
hygiene		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.

### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# AVIENT

Page 5 of 14 Print Date 12/21/2022

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

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#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Tungsten	ACGIH TLV (2017-03-01) TWA 3 mg/m3 (as W) Form: Respirable NIOSH REL (1994-06-01) TWA 5 mg/m3 STEL 10 mg/m3
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	: 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. 5/14

## X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **ÀVIENT**

Pa	age 6 of 14
Print Date	12/21/2022

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

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state	:	solid [Pellets.]
Color		BLACK
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.
-		Not available.
Flammability (solid, gas)	•	Not available.
I ower and upper explosive		Lower Not available
Lower and upper explosive	:	Lower: Not available.
(flammable) limits	:	<b>Upper:</b> Not available.
(flammable) limits Vapor pressure	:	<b>Upper:</b> Not available. Not available.
(flammable) limits Vapor pressure Vapor density	:	<b>Upper:</b> Not available. Not available. Not available.
(flammable) limits Vapor pressure	:	<b>Upper:</b> Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility	:	<b>Upper:</b> Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density	:	<b>Upper:</b> Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility	:	<b>Upper:</b> Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility	:	<b>Upper:</b> Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water		<b>Upper:</b> Not available. Not available. Not available. Not available. Not available. insoluble in water.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n-		<b>Upper:</b> Not available. Not available. Not available. Not available. Not available. insoluble in water.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n- octanol/water		Upper: Not available. Not available. Not available. Not available. Not available. insoluble in water. Not available.

### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **ÀVIENT**

Page 7 of 14 Print Date 12/21/2022

SADT Viscosity	:	Not available. <b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.
Aerosol product		
Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time equivalent	:	Not available.
Enclosed space ignition -	:	Not available.
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

Conclusion/Summary

Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tungsten	Eyes - Mild irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-

## X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **ÀVIENT**

Page 8 of 14 Print Date 12/21/2022

Conclusion/Summary Skin Eyes Respiratory	:	Mixture.Not fully tested. Mixture.Not fully tested. Mixture.Not fully tested.
<u>Sensitization</u>		
Conclusion/Summary Skin Respiratory	:	Mixture.Not fully tested. Mixture.Not fully tested.
<b>Mutagenicity</b>		
Conclusion/Summary	:	Mixture.Not fully tested.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Mixture.Not fully tested.
<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
<b>Teratogenicity</b>		
Conclusion/Summary	:	Mixture.Not fully tested.
Specific target organ toxicity (single Not available.	exp	<u>osure)</u>
Specific target organ toxicity (repean Not available.	ited e	exposure)
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Х GT-41096-0001А-В

Version Number 1.0 Revision Date 12/20/2022



Page 9 of 14 Print Date 12/21/2022

Symptoms related to the physical,	nemical and	toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	No spe No spe No spe	ecific data. ecific data. ecific data. ecific data.
Delayed and immediate effects and	lso chronic	effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects Potential delayed effects	• - • • • • •	railable. railable.
Long term exposure		
Potential immediate effects Potential delayed effects		zailable. zailable.
Potential chronic health effects		
Conclusion/Summary	: Mixtu	re.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	No kn No kn No kn No kn	own significant effects or critical hazards. own significant effects or critical hazards.
Numerical measures of toxicity		
<u>Acute toxicity estimates</u> N/A		
Other information	Expos	hixture has not been evaluated as a whole for health effects. ure effects listed are based on existing health data for the dual components which comprise the mixture.

## Section 12. Ecological information

#### **Toxicity**

### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# **AVIENT**

#### Page 10 of 14 Print Date 12/21/2022

Product/ingredient name	Result	Species	Exposure
X GT-41096-0001A-B			
<b>Remarks - Acute - Aquatic</b>	Chemicals	are not readily available as they are bound within	n the polymer matrix.
invertebrates.:			
Conclusion/Summary		Chemicals are not readily available as they are b polymer matrix.	oound within the
Persistence and degradability			
Conclusion/Summary	:	Chemicals are not readily available as they are polymer matrix.	bound within the
Conclusion/Summary	:	Chemicals are not readily available as they are polymer matrix.	bound within the
<b>Bioaccumulative potential</b> Not available.			
<u>Mobility in soil</u>			
Soil/water partition coefficie (KOC)	nt :	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.

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

#### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022



Page 11 of 14 Print Date 12/21/2022

#### 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): Listed Tungsten
	Diphenylamine
	Branched-nonylphenol, ethoxylate
	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: Not listed
	United States - EPA Clean water act (CWA) section 311 -
	11/14

### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# AVIENT

Page 12 of 14 Print Date 12/21/2022

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

#### 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
Tungsten	>= 75 - <= 90	EYE IRRITATION - Category 2B

Not applicable.

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: Tungsten
Pennsylvania	The following components are listed: Tungsten

#### California Prop. 65



#### X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

Page 13 of 14 Print Date 12/21/2022

This product does not require a Safe Ha		warning under California Prop. 65. All components are active or exempted.
United States Inventory (ISCA 80)	•	An components are active or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
Inventory list		
Australia	:	Not determined.
Canada	:	All components are listed or exempted.
China	:	Not determined.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
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

Date of printing	: 12/21/2022
Date of issue/Date of revision	: 12/20/2022
Date of previous issue	: 00/00/0000
Version	: 1.0
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of

## X GT-41096-0001A-B

Version Number 1.0 Revision Date 12/20/2022

# AVIENT

Page 14 of 14 Print Date 12/21/2022

Chemicals IATA = International Air Transport Association IBC = 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.