

## Metal A46

Version Number 1.8 Revision Date 04/13/2022

Page 1 of 17 Print Date 04/14/2022

# SAFETY DATA SHEET

#### Metal A46

## **Section 1. Identification**

**GHS** product identifier Metal A46 Chemical name Mixture CAS number Mixture Other means of identification CC10080993 **Product type** solid

Relevant identified uses of the substance or mixture and uses advised against

Product use Industrial applications. Plastics.

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 for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. 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



## Metal A46

Version Number 1.8 Page 2 of 17 Revision Date 04/13/2022 Print Date 04/14/2022

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

#### **Precautionary statements**

Prevention
Response
Storage
Disposal
Supplemental label elements
Hazards not otherwise classified

Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
None known.

Not available.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC10080993

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	>= 10 - <= 25	13463-67-7
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	>= 10 - <= 25	68515-48-0
Diundecyl phthalate	>= 5 - <= 10	3648-20-2
Carbon black	>= 1 - <= 3	1333-86-4
Quartz	> 0 - <= 0.3	14808-60-7

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



## Metal A46

Version Number 1.8 Page 3 of 17 Revision Date 04/13/2022 Print Date 04/14/2022

### 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**: 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 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



### Metal A46

Version Number 1.8 Revision Date 04/13/2022

Page 4 of 17 Print Date 04/14/2022

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

**Hazardous thermal** decomposition products May emit Hydrogen Chloride (HCl).

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for firefighters

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 selfcontained 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 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 For emergency responders

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

Move containers from spill area. Vacuum or sweep up material and Small spill

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



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 5 of 17 Print Date 04/14/2022

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
1,2-Benzenedicarboxylic acid, di-C8-10- branched alkyl esters, C9-rich	None.
Diundecyl phthalate	None.
Carbon black	OSHA PEL 1989 (1989-03-01) TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3



## Metal A46

Version Number 1.8 Revision Date 04/13/2022

Page 6 of 17 Print Date 04/14/2022

	NIOSH REL (1994-06-01) TWA 3.5 mg/m3 NIOSH REL (1994-06-01) TWA 0.1 mgPAH/m³ ACGIH TLV (2010-12-06) TWA 3 mg/m3 Form: Inhalable fraction
Quartz	OSHA PEL 1989 (1989-03-01) TWA 0.1 mg/m3 (Calculated as Quartz) Form: Respirable dust OSHA PEL Z3 (1997-09-03) TWA 250 MPPCF / (%SiO2+5) Form: Respirable TWA 10 MG /M3 / (%SiO2+2) Form: Respirable OSHA PEL Z3 (1997-09-03) TWA 30 MG /M3 / (%SiO2+2) Form: Total dust NIOSH REL (1994-06-01) TWA 0.05 mg/m3 Form: Respirable dust ACGIH TLV (2005-12-09) TWA 0.025 mg/m3 Form: Respirable fraction OSHA PEL (2016-06-23) TWA 0.05 mg/m3 Form: Respirable dust

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**

Wash hands, forearms and face thoroughly after handling chemical Hygiene measures

> 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 Eye/face protection

> 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**



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 7 of 17 Print Date 04/14/2022

**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 [Granular solid.]

Color : GREY

Odor Not available. Not available. **Odor threshold** Not available. pН **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 pressureNot available.Vapor densityNot available.Relative densityNot available.SolubilityNot available.Solubility in waterNot available.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.



## Metal A46

Version Number 1.8 Revision Date 04/13/2022

Page 8 of 17 Print Date 04/14/2022

#### Aerosol product

**Heat of combustion** Not available.

**Ignition distance** Not available. **Enclosed space ignition - Time** Not available.

equivalent

**Enclosed space ignition -**

**Deflagration density** 

Flame duration

Flame height

Not available.

Not available. 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).

Under normal conditions of storage and use, hazardous reactions will Possibility of hazardous reactions

Conditions to avoid Keep away from extreme heat and oxidizing agents.

**Incompatible materials** Avoid contact with acetal homopolymers and acetyl homopolymers

during processing.

**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	-
1,2-Benzenedicarboxylic acid,	di-C8-10-branched a	lkyl esters, C9-rich		
	LD50 Oral	Rat	10,000 mg/kg	-
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-

**Conclusion/Summary** Mixture. Not fully tested.

#### Irritation/Corrosion



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 9 of 17 Print Date 04/14/2022

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-Benzenedicarboxylic	Eyes - Mild irritant	Rabbit	-		-
acid, di-C8-10-branched					
alkyl esters, C9-rich					
1,2-Benzenedicarboxylic	Eyes - Mild irritant	Rabbit	=		-
acid, 1,2-diundecyl ester					

Conclusion/Summary

Skin: Mixture.Not fully tested.Eyes: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

#### **Sensitization**

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

**Mutagenicity** 

**Conclusion/Summary**: Mixture.Not fully tested.

**Carcinogenicity** 

**Conclusion/Summary**: Mixture.Not fully tested.

## Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium oxide (TiO2)	-	2B	-
Carbon black	-	2B	-
Quartz	-	1	Known 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)



#### Metal A46

Version Number 1.8 Revision Date 04/13/2022

Page 10 of 17 Print Date 04/14/2022

Name	Category	Route of exposure	Target organs
Quartz	Category 1	-	-

#### **Aspiration hazard**

Not available.

Information on the likely routes of

Not available.

exposure

#### Potential acute health effects

**Eve 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.

#### Symptoms related to the physical, chemical and toxicological 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

## Short term exposure

Not available. **Potential immediate effects** Not available. **Potential delayed effects** 

#### Long term exposure

**Potential immediate effects** Not available. Potential delayed effects Not available.

#### **Potential chronic health effects**

Conclusion/Summary Mixture.Not fully tested.

No known significant effects or critical hazards. General No known significant effects or critical hazards. Carcinogenicity Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. No known significant effects or critical hazards. **Developmental effects Fertility effects** No known significant effects or critical hazards.



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 11 of 17 Print Date 04/14/2022

#### 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				
1,2-Benzenedicarboxylic acid,	1,2-diundecyl ester				
	Acute EC50 12 Mg/l Fresh water	Daphnia - Daphnia magna	48 h		
	Chronic NOEC 0.3 Mg/l Fresh	Fish - Oncorhynchus mykiss	155 d		
	water				
	Chronic NOEC 0.059 Mg/l Fresh	Daphnia - Daphnia magna	21 d		
	water				
Carbon black					
	Acute EC50 37.563 Mg/l Fresh	Daphnia - Daphnia magna	48 h		
	water				
Metal A46					
Remarks - Acute - Aquatic	natic Chemicals are not readily available as they are bound within the polymer matrix.				
invertebrates.:					

**Conclusion/Summary** 

: Chemicals are not readily available as they are bound within the polymer matrix.

## Persistence and degradability

Conclusion/Summary

: Chemicals are not readily available as they are bound within the polymer matrix.



### Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 12 of 17 Print Date 04/14/2022

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the

polymer matrix.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,2-Benzenedicarboxylic acid, di-C8-	8.8	3.00	low
10-branched alkyl esters, C9-rich			

#### **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.

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

: Consult mode specific transport rules



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 13 of 17 Print Date 04/14/2022

International Water IMO/IMDG

: Consult mode specific transport rules

# 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) - 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

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 - TSCA 4(a) - Final Test Rules: Listed 1,2-

Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Rutile, antimony chromium buff Vinyl chloride monomer

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



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 14 of 17 Print Date 04/14/2022

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**: 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
Titanium oxide (TiO2)	>= 10 - <= 25	CARCINOGENICITY - Category 2
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	>= 10 - <= 25	EYE IRRITATION - Category 2B
1,2-Benzenedicarboxylic acid, 1,2-diundecyl ester	>= 5 - <= 10	EYE IRRITATION - Category 2B
Carbon black	>= 1 - <= 3	CARCINOGENICITY - Category 2
Quartz	> 0 - <= 0.3	CARCINOGENICITY - inhalation - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

## Form R - Reporting requirements

CAS number	<b>%</b>
68186-90-3	>= 3 - <= 5

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.



## Metal A46

Version Number 1.8 Page 15 of 17 Revision Date 04/13/2022 Print Date 04/14/2022

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:<br/>Ethene, chloro-, homopolymer

Calcium carbonate Titanium dioxide

Rutile, antimony chromium buff

Carbon black Quartz

**Pennsylvania** : The following components are listed:

Calcium carbonate

Titanium dioxide

Rutile, antimony chromium buff

Carbon black

Quartz

#### California Prop. 65

WARNING: 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
Titanium dioxide	-	-
1,2-Benzenedicarboxylic acid, di-C8-10-	Yes.	-
branched alkyl esters, C9-rich		
Carbon black	-	-
Quartz	-	-

**United States inventory (TSCA 8b)** : All components are active or exempted.

Canada inventory : At least one component is not listed in DSL but all such components

are listed in NDSL.

#### **International regulations**

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : At least one component is not listed in DSL but all such components



## Metal A46

Version Number 1.8 Page 16 of 17 Revision Date 04/13/2022 Print Date 04/14/2022

are listed in NDSL.

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** : All components are listed or exempted.

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** 

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**Date of issue/Date of revision** : 04/13/2022, 04/13/2022

**Date of previous issue** : 12/16/2021 **Version** : 1, 1.8, 8

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

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

**References** : Not available.



## Metal A46

Version Number 1.8 Revision Date 04/13/2022 Page 17 of 17 Print Date 04/14/2022

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.