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## Safety Data Sheet acc. to OSHA HCS

Printing date 11/02/2021 Reviewed on 11/02/2021

#### 1 Identification

· Product identifier

· Trade name: Trace Metals on Filter Media

· Article number: QC-TMFM-D

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

High-Purity Standards

7221 Investment Drive, North Charleston, SC 29418 United States

Telephone: +1-843-767-7900 Fax: +1-843-767-7906 highpuritystandards.com

Email: info@highpuritystandards.com

· Information department: Product safety department

· Emergency telephone number:

*INFOTRAC* 

Emergency telephone numbers 1-800-535-5053 Other emergency telephone numbers 1-352-323-3500

### 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

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### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous	s components:	
9004-70-0	nitrocellulose,dry or wetted with less than 25% water(or alcohol), by mass	80-90%
Chemical i	dentification of the substance/preparation	
9004-35-7	Cellulose Acetate	0-10%
7429-90-5	aluminium	w/w%
7439-89-6	iron	0.13%
7439-92-1	lead	0.006%
7440-02-0	nickel	0.006%
7440-28-0	thallium	0.006%
7440-39-3	barium	0.006%
7440-47-3	chromium	0.006%
7440-48-4	cobalt	0.006%
7440-50-8	copper	0.006%
7440-62-2	vanadium	0.006%
7440-66-6	zinc	0.006%
7439-96-5	manganese	0.003%
7440-22-4	silver	0.003%
7440-38-2	arsenic	0.003%
7440-43-9	cadmium	0.003%
7440-41-7	beryllium	0.0001%

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.



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### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· <i>PAC-1</i> :		
7439-89-6	iron	$3.2 \text{ mg/m}^3$
7439-92-1	lead	$0.15 \text{ mg/m}^3$
7440-02-0	nickel	$4.5 \text{ mg/m}^3$
7440-28-0	thallium	$0.06  mg/m^3$
7440-39-3	barium	$1.5 \text{ mg/m}^3$
7440-47-3	chromium	$1.5 \text{ mg/m}^3$
7440-48-4	cobalt	$0.18 \text{ mg/m}^3$
7440-50-8	copper	$3 mg/m^3$
7440-62-2	vanadium	3 mg/m <sup>3</sup>
7440-66-6	zinc	6 mg/m³
7439-96-5	manganese	3 mg/m <sup>3</sup>
7440-22-4	silver	$0.3 \text{ mg/m}^3$
7440-38-2	arsenic	$1.5 mg/m^3$
7440-43-9	cadmium	$0.10 \text{ mg/m}^3$
7440-41-7	beryllium	0.0023 mg/n
· <i>PAC-2</i> :		
7439-89-6	iron	$35 \text{ mg/m}^3$
7439-92-1	lead	120 mg/m³
7440-02-0	nickel	$50 \text{ mg/m}^3$
7440-28-0	thallium	$3.3 \text{ mg/m}^3$
7440-39-3	barium	180 mg/m³
		(Contd. on page





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7440-47-3	chromium	(Contd. of page $17 \text{ mg/m}^3$
7440-48-4		$\frac{1 \text{ mg/m}}{2 \text{ mg/m}^3}$
7440-50-8		$33 \text{ mg/m}^3$
7440-62-2		5.8 mg/m <sup>3</sup>
7440-66-6		$21 \text{ mg/m}^3$
	manganese	$5 mg/m^3$
7440-22-4	silver	$170 \text{ mg/m}^3$
7440-38-2	arsenic	17 mg/m³
7440-43-9	cadmium	$0.76 \text{ mg/m}^3$
7440-41-7	beryllium	0.025 mg/m
<i>PAC-3:</i>		·
7439-89-6	iron	$150 \text{ mg/m}^3$
7439-92-1	lead	$700 \text{ mg/m}^3$
7440-02-0	nickel	99 mg/m³
7440-28-0	thallium	20 mg/m³
7440-39-3	barium	1,100 mg/m
7440-47-3	chromium	99 mg/m³
7440-48-4	cobalt	20 mg/m³
7440-50-8	copper	$200 \text{ mg/m}^3$
7440-62-2	vanadium	35 mg/m³
7440-66-6	zinc	$120 \text{ mg/m}^3$
7439-96-5	manganese	1,800 mg/m
7440-22-4		990 mg/m³
7440-38-2	arsenic	$100 \text{ mg/m}^3$
7440-43-9	cadmium	4.7 mg/m³
7440-41-7	beryllium	$0.1 \text{ mg/m}^3$

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

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· Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid
Color: Whitish
Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

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Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	<b>ter):</b> Not determined.	
Viscosity:		
Dynamic:		
Kinematic:	Not applicable.	
Solvent content:		
VOC content:	0.00 %	
Solids content:	80.2-90.2 %	
Other information	No further relevant information available.	

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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### 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

7439-92-1	lead	
7440-02-0	nickel	
7440-47-3	chromium	
7440-48-4	cobalt	
7440-38-2	arsenic	
7440-43-9	cadmium	
7440-41-7	beryllium	
NTP (Nati	onal Toxicology Program)	
7439-92-1	lead	
7440-02-0	nickel	
7440-48-4	cobalt	
7440-38-2	arsenic	
7440-43-9	cadmium	
7440-41-7	beryllium	
OSHA-Ca	(Occupational Safety & Health Administration)	
7440-38-2	arsenic	
7440-43-9	cadmium	

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	not regulated	
UN proper shipping name DOT, ADR, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, ADR, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	not regulated	

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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Sara		
	5 (extremely hazardous substances):	
-	e ingredients is listed.	
	3 (Specific toxic chemical listings):	
	aluminium	
7439-92-1		
7440-02-0		
7440-28-0		
7440-39-3		
7440-47-3		
7440-48-4		
7440-50-8		
7440-62-2		
7440-66-6		
	manganese	
7440-22-4	silver	
7440-38-2	arsenic	
7440-43-9	cadmium	
7440-41-7	beryllium	
TSCA (Tox	xic Substances Control Act):	
All compor	nents have the value ACTIVE.	
Hazardous	s Air Pollutants	
7439-92-1	lead	
7440-48-4		
7439-96-5	manganese	
Proposition		
Chemicals	known to cause cancer:	
7439-92-1	lead	
7440-02-0	nickel	
7440-48-4	cobalt	
7440-38-2	arsenic	
7440-43-9	cadmium	
7440-41-7	beryllium	
Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for males:	
7439-92-1	lead	
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7440-43-9 cadmium		(Contd. of pa
Chemicals known to cause develo	opmental toxicity:	
7439-92-1 lead	pmental toxicay.	
7440-43-9 cadmium		
Carcinogenic categories		
EPA (Environmental Protection )	Agency)	
7439-92-1 lead	rigency)	B2
7440-39-3 barium		D, CBD(inh), NL(ora
7440-47-3 chromium		D
7440-50-8 copper		D
7440-66-6 zinc		D, I, II
7439-96-5 manganese		D
7440-22-4 silver		
7440-38-2 arsenic		
7440-43-9 cadmium		B1
7440-41-7 beryllium		B1, K/L(inh), CBD(o
TLV (Threshold Limit Value)		
7429-90-5 aluminium		
7439-92-1 lead		
7440-02-0 nickel		
7440-39-3 barium		
7440-47-3 chromium		
7440-48-4 cobalt		
7440-38-2 arsenic		
7440-43-9 cadmium		
7440-41-7 beryllium		
NIOSH-Ca (National Institute fo	r Occupational Safety and Health)	)
7440-02-0 nickel		
7440-38-2 arsenic		
7 1 10 30 2 disente		

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:

High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906

- · Date of preparation / last revision 11/02/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

 $DOT: \ US \ Department \ of \ Transportation$ 

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

HMIS: Hazaraous Materiais Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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