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# Safety Data Sheet acc. to OSHA HCS

Printing date 06/24/2022 Reviewed on 06/24/2022

#### 1 Identification

· Product identifier

· Trade name: Trace Metals on Filter Media

· Article number: QC-TMFM-F

· 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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<b>Description:</b> Mixture of the substances listed below with nonhazardous additions.	
Dangerous components:	
9004-70-0 nitrocellulose,dry or wetted with less than 25% water(or alcohol), by mass	≤90.0%
Chemical identification of the substance/preparation	
9004-35-7 Cellulose Acetate	≤10.0%
7440-38-2 arsenic	0.023%
7439-89-6 iron	0.006%
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%
10102-06-4 Uranyl nitrate	0.0069
7439-96-5 manganese	0.003%
7440-22-4 silver	0.0039
7440-41-7 beryllium	0.0039
7440-43-9 cadmium	0.003%

### 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> :		
7440-38-2	arsenic	$1.5 \text{ mg/m}^3$
7439-89-6	iron	3.2 mg/m <sup>3</sup>
7439-92-1	lead	$0.15 \text{ mg/m}^3$
7440-02-0	nickel	$4.5 mg/m^3$
7440-28-0	thallium	$0.06 \text{ mg/m}^3$
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 <sup>3</sup>
7440-62-2	vanadium	3 mg/m <sup>3</sup>
7440-66-6	zinc	6 mg/m³
10102-06-4	Uranyl nitrate	$0.99 \text{ mg/m}^3$
7439-96-5	manganese	3 mg/m <sup>3</sup>
7440-22-4	silver	$0.3 \text{ mg/m}^3$
7440-41-7	beryllium	0.0023 mg/n
7440-43-9	cadmium	$0.10 \text{ mg/m}^3$
· <i>PAC-2</i> :		·
7440-38-2	arsenic	$17 \text{ mg/m}^3$
7439-89-6	iron	$35 \text{ mg/m}^3$
7439-92-1	lead	120 mg/m³
7440-02-0	nickel	$50 \text{ mg/m}^3$
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7440-28-0		$3.3 \text{ mg/m}^3$
7440-39-3		$180 \text{ mg/m}^3$
7440-47-3	chromium	$17 \text{ mg/m}^3$
7440-48-4	cobalt	2 mg/m <sup>3</sup>
7440-50-8	copper	33 mg/m³
7440-62-2	vanadium	5.8 mg/m <sup>3</sup>
7440-66-6	zinc	21 mg/m³
10102-06-4	Uranyl nitrate	$5.5 \text{ mg/m}^3$
7439-96-5	manganese	5 mg/m <sup>3</sup>
7440-22-4		$170 \text{ mg/m}^3$
7440-41-7	beryllium	0.025 mg/m
7440-43-9	cadmium	$0.76  mg/m^3$
<i>PAC-3</i> :		
7440-38-2	arsenic	$100 \text{ mg/m}^3$
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	$20 \text{ mg/m}^3$
7440-50-8	copper	200 mg/m³
7440-62-2	vanadium	$35 \text{ mg/m}^3$
7440-66-6	zinc	$120 \text{ mg/m}^3$
10102-06-4	Uranyl nitrate	$33 \text{ mg/m}^3$
7439-96-5	manganese	1,800 mg/m
7440-22-4	silver	990 mg/m³
7440-41-7	beryllium	$0.1 \text{ mg/m}^3$
7440-43-9	•	$4.7 \text{ mg/m}^3$

### 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.

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 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 Whitish

· Odor: Characteristic
· Odor threshold: Not determined.

· pH-value: Not applicable.

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Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
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	t <b>er):</b> Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
VOC content:	0.00 %	
Solids content:	80.1-90.1 %	
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.

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· Hazardous decomposition products: No dangerous decomposition products known.

### 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

7440-38-2	ernational Agency for Research on Cancer)	1
7439-92-1	lead	2.
7440-02-0	nickel	2.
7440-47-3	chromium	3
7440-48-4	cobalt	2
7440-41-7	beryllium	1
7440-43-9	cadmium	1
NTP (Nati	onal Toxicology Program)	
7440-38-2	arsenic	
7439-92-1	lead	
7440-02-0	nickel	
7440-48-4	cobalt	
7440-41-7	beryllium	
7440-43-9	cadmium	
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.

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- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · 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.

4 Transport information	
· 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 MARPOL73/78 and the IBC Code	<b>I of</b> Not applicable.
· UN "Model Regulation":	not regulated

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No further	lth and environmental regulations/legislation specific for the substance or mixture relevant information available.
Sara Section 35	5 (extremely hazardous substances):
	e ingredients is listed.
<i>Section 313</i> <i>7440-38-2</i>	3 (Specific toxic chemical listings):
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	
7440-41-7	
7440-43-9	·
TSCA (Tox	cic Substances Control Act):
,	nents have the value ACTIVE.
-	Air Pollutants
7439-92-1	
7440-48-4	
	manganese
Proposition	
-	known to cause cancer:
7440-38-2	
7439-92-1	
7440-02-0	
7440-48-4	
7440-41-7	
7440-43-9	_ ·
Chemicals	known to cause reproductive toxicity for females:





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Chemicals known to cause reproductive toxicity for male	es:
7439-92-1 lead	
7440-43-9 cadmium	
Chemicals known to cause developmental toxicity:	
7439-92-1 lead	
7440-43-9 cadmium	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
7440-38-2 arsenic	A
7439-92-1 lead	B2
7440-39-3 barium	D, CBD(inh), NL(oral
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	D
7440-41-7 beryllium	B1, K/L(inh), CBD(or
7440-43-9 cadmium	B1
TLV (Threshold Limit Value)	'
7440-38-2 arsenic	
7439-92-1 lead	
7440-02-0 nickel	
7440-39-3 barium	
7440-47-3 chromium	
7440-48-4 cobalt	
7440-41-7 beryllium	
7440-43-9 cadmium	
NIOSH-Ca (National Institute for Occupational Safety	and Health)
7440-38-2 arsenic	
7440-02-0 nickel	
10102-06-4 Uranyl nitrate	
7440-41-7 beryllium	

- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 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 06/24/2022 / -
- · 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) 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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