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Safety Data Sheet acc. to OSHA HCS

Printing date 03/12/2020 Reviewed on 06/21/2018

1 Identification

· Product identifier

· Trade name: <u>OMS-21</u> · Article number: OMS-21

· 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



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

White mineral oil, petroleum

· Hazard statements

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0
 Fire = 1
 Reactivity = 0

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

3 Composition/information on ingredients

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

8042-47-5 White mineral oil, petroleum	99.58%
Chemical identification of the substance/preparation	
7429-90-5 aluminium	0.02%
7439-89-6 iron	0.02%
7439-92-1 lead	0.02%
7439-95-4 magnesium	0.02%
7439-96-5 manganese	0.02%
7439-98-7 molybdenum	0.02%
7440-02-0 nickel	0.02%
7440-21-3 silicon	0.02%
7440-22-4 silver	0.02%
7440-23-5 sodium	0.02%
7440-31-5 tin	0.02%
7440-32-6 titanium	0.02%
7440-39-3 barium	0.02%
7440-42-8 boron	0.02%
7440-43-9 cadmium	0.02%
7440-47-3 chromium	0.02%
7440-50-8 copper	0.02%





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7440-62-2	vanadium	0.02%
7440-66-6	zinc	0.02%
7440-70-2	calcium	0.02%
7723-14-0	phosphorus	0.02%

4 First-aid measures

- · Description of first aid measures
- · 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.

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:

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· 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 mg/m³
	7439-92-1	lead	0.15 mg/m^3
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- US





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7439-95-4 n	agnesium	(Contd. of page 18 mg/m³
7439-96-5 n		$3 mg/m^3$
7439-98-7 n	=	30 mg/m^3
7440-02-0 n	·	4.5 mg/m^3
7440-21-3 s		45 mg/m ³
7440-22-4 s	lver	0.3 mg/m^3
7440-23-5 s	odium	13 mg/m³
7440-31-5 ti	n	6 mg/m^3
7440-32-6 ti	tanium	30 mg/m^3
7440-39-3 b	arium	1.5 mg/m^3
7440-42-8 b	oron	1.9 mg/m^3
7440-43-9 c	ıdmium	0.10 mg/m
7440-47-3 c	iromium	1.5 mg/m^3
7440-50-8 c	opper	3 mg/m^3
7440-62-2 v	ınadium	3 mg/m^3
7440-66-6 z	nc	6 mg/m^3
7723-14-0 p	hosphorus	0.27 mg/m
PAC-2:		
7439-89-6 ii	on	35 mg/m^3
7439-92-1 le	ad	120 mg/m ⁻
7439-95-4 n	agnesium	200 mg/m ⁻
7439-96-5 n	anganese	5 mg/m^3
7439-98-7 n	olybdenum	330 mg/m ⁻
7440-02-0 n	ickel	50 mg/m^3
7440-21-3 s	licon	100 mg/m
7440-22-4 s	lver	170 mg/m
7440-23-5 s	odium	140 mg/m
7440-31-5 ti	n	67 mg/m^3
7440-32-6 ti	tanium	330 mg/m ²
7440-39-3 b	arium	180 mg/m
7440-42-8 b	oron	21 mg/m³
7440-43-9 c	admium	0.76 mg/m
7440-47-3 c	romium	17 mg/m^3
7440-50-8 c	opper	33 mg/m^3
7440-62-2 v	unadium	5.8 mg/m^3
7440-66-6 z	пс	21 mg/m³
7723-14-0 p	hosphorus	3 mg/m^3





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PAC-3:	
7439-89-6 iron	150 mg/m^3
7439-92-1 lead	700 mg/m^3
7439-95-4 magnesium	1,200 mg/m
7439-96-5 manganese	1,800 mg/m
7439-98-7 molybdenum	2,000 mg/m
7440-02-0 nickel	99 mg/m³
7440-21-3 silicon	630 mg/m^3
7440-22-4 silver	990 mg/m³
7440-23-5 sodium	870 mg/m^3
7440-31-5 tin	400 mg/m^3
7440-32-6 titanium	2,000 mg/m
7440-39-3 barium	1,100 mg/m
7440-42-8 boron	130 mg/m^3
7440-43-9 cadmium	4.7 mg/m^3
7440-47-3 chromium	99 mg/m³
7440-50-8 copper	200 mg/m^3
7440-62-2 vanadium	35 mg/m^3
7440-66-6 zinc	120 mg/m^3
7723-14-0 phosphorus	18 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · 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: Keep receptacle tightly sealed.
- · 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.

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- · 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:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- · 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: Goggles recommended during refilling.

9 Physical and chemical properties

· General Information	
· Appearance:	
Form:	Fluid
Color:	Brown
· Odor:	Characteristic
· Odor threshold:	Not determined.

· Information on basic physical and chemical properties

· pH-value: Not determined.

· Change in condition

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

• Flash point: >112 °C (>233.6 °F)

· Flammability (solid, gaseous): Not applicable.

• **Decomposition temperature:** Not determined.

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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 determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/v	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC content:	0.00 %	
	0.0~g/l / $0.00~lb/gal$	
Solids content:	0.4 %	
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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.

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- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)		
7439-92-1	lead	2B	
7440-02-0	nickel	2B	
7440-43-9	cadmium	1	
7440-47-3	chromium	3	
· NTP (Natio	onal Toxicology Program)		
7439-92-1	lead	R	
7440-02-0	nickel	R	
7440-43-9	cadmium	K	
· OSHA-Ca	· OSHA-Ca (Occupational Safety & Health Administration)		
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.
- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	not regulated	
UN proper shipping name DOT, ADR, ADN, 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 MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	not regulated	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Section 35.	Section 355 (extremely hazardous substances):		
7723-14-0	phosphorus		
· Section 31.	3 (Specific toxic chemical listings):		
7429-90-5	aluminium		
7439-92-1	lead		
7439-96-5	manganese		
7440-02-0	nickel		
7440-22-4	silver		
7440-39-3	barium		
7440-43-9			
7440-47-3	chromium		
7440-50-8	copper		
7440-62-2	vanadium		

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7440-66-6		
7723-14-0	phosphorus	
•	ic Substances Control Act):	
All compon	ents have the value ACTIVE.	
· Hazardous	Air Pollutants	
7439-92-1	lead	
7439-96-5	manganese	
7723-14-0	phosphorus	
Proposition	65	
· Chemicals	known to cause cancer:	
7439-92-1		
7440-02-0		
7440-43-9	cadmium	
· Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
· Chemicals	known to cause reproductive toxicity for males:	
7439-92-1		
7440-43-9	cadmium	
Chemicals	known to cause developmental toxicity:	
7439-92-1		
7440-43-9	cadmium	
Canainagar	ic categories	
	conmental Protection Agency)	
7439-92-1		B2
7439-96-5		D
7440-22-4		D D
7440-39-3		D, CBD(inh), NL(ord
7440-42-8		I (oral)
7440-43-9		B1
7440-47-3		D
7440-50-8		D
7440-66-6	11	D, I, II
7723-14-0		D
TIV/The	hold Limit Value established by ACGIH)	
· ILV (Inres		
		f
7429-90-5 7439-92-1		1



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7440-02-0		A5
7440-39-3	barium	A4
7440-43-9	cadmium	A2
7440-47-3	chromium	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
7440-02-0		
7440-43-9	cadmium	

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labeling:

White mineral oil, petroleum

· Hazard statements

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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 03/12/2020 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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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, ÉU) 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 Asp. Tox. 1: Aspiration hazard – Category 1

US