

acc. to OSHA HCS

Printing date 07/28/2021

Review date 07/28/2021

1 Identification

- **Product identifier**
- **Trade name:** FILTER-TRP OXY-MSTRE HYDROCARB ABSORB
- **Article number** N9306819
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

PerkinElmer, Inc.
710 Bridgeport Avenue
Shelton, Connecticut 06484 USA
CustomerCareUS@perkinelmer.com
203-925-4600

- **Emergency telephone number:**
CHEMTREC (within US) 800-424-9300
CHEMTREC (from outside US) +1 703-527-3887 (call collect)
CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

- **Classification of the substance or mixture**



Health hazard

Carc. 1A H350 May cause cancer.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS07, GHS08, GHS09
- **Signal word** Danger
- **Hazard-determining components of labeling:**
copper(II) oxide
nickel monoxide
manganese dioxide

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tricobalt tetraoxide

· Hazard statements

- H302 Harmful if swallowed.*
- H320 Causes eye irritation.*
- H317 May cause an allergic skin reaction.*
- H350 May cause cancer.*
- H372 Causes damage to organs through prolonged or repeated exposure.*
- H400 Very toxic to aquatic life.*
- H410 Very toxic to aquatic life with long lasting effects.*

· Precautionary statements

- P201 Obtain special instructions before use.*
- P202 Do not handle until all safety precautions have been read and understood.*
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.*
- P264 Wash thoroughly after handling.*
- P270 Do not eat, drink or smoke when using this product.*
- P272 Contaminated work clothing must not be allowed out of the workplace.*
- P273 Avoid release to the environment.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.*
- P330 Rinse mouth.*
- P302+P352 If on skin: Wash with plenty of water.*
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P308+P313 IF exposed or concerned: Get medical advice/attention.*
- P321 Specific treatment (see on this label).*
- P314 Get medical advice/attention if you feel unwell.*
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.*
- P337+P313 If eye irritation persists: Get medical advice/attention.*
- P363 Wash contaminated clothing before reuse.*
- P391 Collect spillage.*
- P405 Store locked up.*
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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· **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.

· **Hazardous components:**

1344-28-1	aluminium oxide	31.405%
7440-44-0	carbon ⚠ Flam. Sol. 1, H228	25.0%
1318-02-1	Zeolites Eye Irrit. 2B, H320	18.8%
1317-38-0	copper(II) oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	7.0%
1313-13-9	manganese dioxide ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	6.44%
1308-06-1	tricobalt tetraoxide ⚠ Carc. 1B, H350 ⚠ Skin Sens. 1, H317	1.0%
1313-99-1	nickel monoxide ⚠ Carc. 1A, H350; STOT RE 1, H372 ⚠ Skin Sens. 1, H317 Aquatic Chronic 4, H413	1.0%

· **Additional Components**

12926-00-8	Silica gel	9.3%
7664-93-9	sulphuric acid ⚠ Carc. 1A, H350 ⚠ Skin Corr. 1A, H314	0.055%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **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**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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**

· **PAC-1:**

1344-28-1	aluminium oxide	15 mg/m ³
1317-38-0	copper(II) oxide	0.75 mg/m ³
1313-13-9	manganese dioxide	4.7 mg/m ³
1308-06-1	tricobalt tetraoxide	0.082 mg/m ³
1313-99-1	nickel monoxide	0.76 mg/m ³
7664-93-9	sulphuric acid	0.20 mg/m ³

· **PAC-2:**

1344-28-1	aluminium oxide	170 mg/m ³
1317-38-0	copper(II) oxide	11 mg/m ³
1313-13-9	manganese dioxide	7.9 mg/m ³
1308-06-1	tricobalt tetraoxide	4.5 mg/m ³
1313-99-1	nickel monoxide	220 mg/m ³
7664-93-9	sulphuric acid	8.7 mg/m ³

· **PAC-3:**

1344-28-1	aluminium oxide	990 mg/m ³
1317-38-0	copper(II) oxide	93 mg/m ³
1313-13-9	manganese dioxide	690 mg/m ³
1308-06-1	tricobalt tetraoxide	27 mg/m ³

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1313-99-1	nickel monoxide	1,300 mg/m ³
7664-93-9	sulphuric acid	160 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **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.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1344-28-1 aluminium oxide

PEL	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m ³ as Al; *as respirable fraction

1313-13-9 manganese dioxide

PEL	Ceiling limit value: 5 mg/m ³ as Mn
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ as Mn
TLV	Long-term value: 0.02* 0.1** mg/m ³ as Mn; *respirable **inhalable fraction

1308-06-1 tricobalt tetraoxide

PEL	Long-term value: 0.1* mg/m ³ as Co; *for metal dust and fume
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REL	Long-term value: 0.05 mg/m ³ as Co; metal dust & fume
TLV	Long-term value: 0.02* mg/m ³ as Co, *inhalable; DSEN; RSEN; BEI

1313-99-1 nickel monoxide

PEL	Long-term value: 1 mg/m ³ as Ni
REL	Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV	Long-term value: 0.2 mg/m ³ as Ni; inhalable fraction

· Ingredients with biological limit values:

1308-06-1 tricobalt tetraoxide

BEI	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background)
	1 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)

· **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.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

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

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· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles or safety glasses

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Solid material
· Color:	According to product specification
· Odor:	Light
· Odor threshold:	Not determined.

· **pH-value:** Not applicable.

· **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.
Not determined.

· **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:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not applicable.

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Kinematic:	<i>Not applicable.</i>
· Solvent content: VOC content:	<i>0.00 %</i>
Solids content:	<i>71.8 %</i>
· Other information	<i>No further relevant information available.</i>

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:** *Irritating effect.*
- **Sensitization:** *Sensitization possible through skin contact.*
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1318-02-1	Zeolites	3
1308-06-1	tricobalt tetraoxide	2B
1313-99-1	nickel monoxide	1
7664-93-9	sulphuric acid	1

- **NTP (National Toxicology Program)**

1313-99-1	nickel monoxide	K
7664-93-9	sulphuric acid	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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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.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **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:**
Dispose of container and materials in accordance with local, regional and national regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT	Void
· ADR, IMDG, IATA	UN3077
· UN proper shipping name	
· DOT	Void
· ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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<ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class <i>Void</i> 	
<ul style="list-style-type: none"> · ADR  · Class <i>9 (M7) Miscellaneous dangerous substances and articles</i> · Label <i>9</i> 	
<ul style="list-style-type: none"> · IMDG, IATA  · Class <i>9 Miscellaneous dangerous substances and articles</i> · Label <i>9</i> 	
<ul style="list-style-type: none"> · Packing group · DOT <i>Void</i> · ADR, IMDG, IATA <i>III</i> 	
<ul style="list-style-type: none"> · Environmental hazards: <i>Product contains environmentally hazardous substances:</i> · Marine pollutant: <i>Activated copper oxide</i> · Special marking (ADR): <i>Symbol (fish and tree)</i> · Special marking (IATA): <i>Symbol (fish and tree)</i> 	
<ul style="list-style-type: none"> · Special precautions for user <i>Warning: Miscellaneous dangerous substances and articles</i> · Hazard identification number (Kemler code): <i>90</i> · EMS Number: <i>F-A,S-F</i> · Stowage Category <i>A</i> · Stowage Code <i>SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</i> 	
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code <i>Not applicable.</i> 	
<ul style="list-style-type: none"> · Transport/Additional information: · ADR · Excepted quantities (EQ) <i>Code: E1</i> · Maximum net quantity per inner packaging: <i>30 g</i> · Maximum net quantity per outer packaging: <i>1000 g</i> 	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) <i>5 kg</i> 	

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· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	Non regulated according to above specifications. UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

15 Regulatory information

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

1344-28-1	aluminium oxide		31.405%
7440-44-0	carbon	 Flam. Sol. 1, H228	25.0%
1318-02-1	Zeolites	Eye Irrit. 2B, H320	18.8%

· **Sara**

· **Section 355 (extremely hazardous substances):**

7664-93-9	sulphuric acid
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· **Section 313 (Specific toxic chemical listings):**

1344-28-1	aluminium oxide
1317-38-0	copper(II) oxide
1313-13-9	manganese dioxide
1308-06-1	tricobalt tetraoxide
1313-99-1	nickel monoxide
7664-93-9	sulphuric acid

· **TSCA (Toxic Substances Control Act):**

1344-28-1	aluminium oxide	ACTIVE
1317-38-0	copper(II) oxide	ACTIVE
1313-13-9	manganese dioxide	ACTIVE
1308-06-1	tricobalt tetraoxide	ACTIVE
1313-99-1	nickel monoxide	ACTIVE
7664-93-9	sulphuric acid	ACTIVE

· **Hazardous Air Pollutants**

1313-13-9	manganese dioxide
1308-06-1	tricobalt tetraoxide
1313-99-1	nickel monoxide

· **Proposition 65**

· **Chemicals known to cause cancer:**

1313-99-1	nickel monoxide
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.	
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

1313-13-9	manganese dioxide	D
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· **TLV (Threshold Limit Value established by ACGIH)**

1344-28-1	aluminium oxide	A4
1308-06-1	tricobalt tetraoxide	A3
1313-99-1	nickel monoxide	A1
7664-93-9	sulphuric acid	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1313-99-1	nickel monoxide
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· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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

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

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

· **Department issuing SDS: Environmental, Health and Safety**

· **Contact:**

Within the USA: 1-(800)-762-4000

Outside the USA: 1-(203)-712-8488

· **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

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ACGIH: American Conference of Governmental Industrial Hygienists
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
BEI: Biological Exposure Limit
Flam. Sol. 1: Flammable solids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A
Carc. 1B: Carcinogenicity – Category 1B
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· *** Data compared to the previous version altered.**

USA