

Printing date 27.07.2021

Revision: 27.07.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

Identifico	tion			
Product id	ntifier			
Article num Relevant id No further	e: OXYGEN TRAP, HIGH CA ber: N9301179 entified uses of the substance of elevant information available. of the substance / the mixture	r mixture and uses advis	ed against	
	he supplier of the safety data sh rer/Supplier:	eet		
Shelton, Co	port Avenue nnecticut 06484 USA areUS@perkinelmer.com 00			
Supplier/Le				
530-540 S _F Glen Wave Melbourne VIC 3150 Australia 1-800-033- ausales@p Emergency CHEMTRE CHEMTRE	5, Brandon Office Park ringvale Road ley			
Hazard(s	Identification			
Classificat	on of the substance or mixture			
	ame			
Self-heat. I	H251 Self-heating: may cate	fire.		
\sim	4 H302 Harmful if swallowed.			



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· Label elements
• GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms GHS02, GHS07
· Signal word Danger
· Hazard-determining components of labelling:
copper(II) oxide
· Hazard statements
H251 Self-heating: may catch fire.
H302 Harmful if swallowed.
· Precautionary statements
P235+P410 Keep cool. Protect from sunlight.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
<i>P413</i> Store bulk masses greater than na kg at temperatures not exceeding na°C.
P420 Store away from other materials.
<i>P501</i> Dispose of contents/container in accordance with local/regional/national/international regulations.
• 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.
• vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:		
7440-50-8	copper		36.0%
1314-13-2	zinc oxide - (non-pyrophoric)		24.0%
1318-02-1	Zeolites 🕥	Eye Irrit. 2A, H319	15.6%
1344-28-1	aluminium oxide		8.0%
7782-42-5	Graphite		2.0%
· Additional	Components		
1317-38-0	copper(II) oxide		12.0%
1327-43-1	Aluminum Magnesium Silicate		2.2%
14808-60-7	7 Quartz (SiO2)		0.2%
· Additional	information: For the wording of the listed hazard phrases refer to secu	tion 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

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- · 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: Call for a doctor immediately.
- 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 extinguishing methods suitable to surrounding conditions.
- 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 Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- *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.

7 Handling and Storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- · 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 container tightly sealed.
- Specific end use(s) No further relevant information available.
- 8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7440-50-8 copper

WES Long-term value: 1* 0.2** mg/m³ *dust & mists (as Cu) **fume

1314-13-2 zinc oxide - (non-pyrophoric)WESShort-term value: 10^{**} mg/m³Long-term value: 10^* 5** mg/m³

*dust **fume

1344-28-1 aluminium oxide

WES Long-term value: 10 mg/m³

7782-42-5 Graphite

WES Long-term value: 3 mg/m³

• Additional information: The lists valid during the making 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.
- · Respiratory protection: Not required.
- 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.

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: Not required.

9 Physical and Chemical Properties

· Information on basic physi · General Information	cal and chemical properties	
· Appearance:		
Form:	Solid	
Colour:	White	
· Odour:	Characteristic	
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Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	1975 °C	
Initial boiling point and boiling range	2230 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	1.2 g/cm ³	
Relative density	Not determined.	
Vapour 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.	
Kinematic:	Not applicable.	
Solvent content:		
Solids content:	95.4 %	
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.

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11 Toxicological Information

· Information on toxicological effects

• Acute toxicity

· LD/LC50 values relevant for classification:

1314-13-2 zinc oxide - (non-pyrophoric)

Oral LD50 >5000 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation No irritant effect.
- Serious eye damage/irritation No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- · Additional toxicological information: Harmful

12 Ecological Information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- · 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 together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*

14 Transport information

- · UN-Number
- · ADG, IMDG, IATA

UN3190

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UN proper shipping name ADG IMDG	3190 SELF-HEATING SOLID, INORGANIC, N.O.S (Activated copper oxide), ENVIRONMENTALL HAZARDOUS SELF-HEATING SOLID, INORGANIC, N.O.S. (Activate copper oxide), MARINE POLLUTANT
IATA	SELF-HEATING SOLID, INORGANIC, N.O.S. (Activate copper oxide)
Transport hazard class(es)	
ADG, IMDG	
Class Label	<i>4.2 Substances liable to spontaneous combustion. 4.2</i>
Class Label	<i>4.2 Substances liable to spontaneous combustion.</i> <i>4.2</i>
Packing group ADG, IMDG, IATA	II
Environmental hazards: Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADG):	Symbol (fish and tree)
Special precautions for user Stowage Category	<i>Warning: Substances liable to spontaneous combustion.</i> <i>E</i>
Transport in bulk according to Annex II of Ma and the IBC Code	nrpol Not applicable.
Transport/Additional information:	
ADG Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· IMDG	0

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36.0% 24.0%

15.6%

🚯 Eye Irrit. 2A, H319

according to WHS Regulations

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g	
· UN "Model Regulation":	UN 3190 SELF-HEATING SOLID, INORGANIC, N.O.S. (ACTIVATED COPPER OXIDE), 4.2, II, ENVIRONMENTALLY HAZARDOUS	

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15 Regulatory information

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· sajely, nealin ana	environmeniai	regulations/leg	gistation speci	ijic jor ine	substance or mixture

7440-50-8	copper
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1314-13-2 zinc oxide - (non-pyrophoric)

1318-02-1 Zeolites

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II: 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.

- Waterhazard class: Water hazard class 2 (Self-assessment): 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H319 Causes serious eye irritation.

· Department issuing SDS: Environmental, Health and Safety

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Contact:	
Within the USA:	1-(800)-762-4000
	1-(203)-712-8488
Abbreviations and	
RID: Règlement inter International Transpo	rational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning th rt of Dangerous Goods by Rail) ivil Aviation Organisation
	en sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
Carriage of Dangerou	
	Aaritime Code for Dangerous Goods
IATA: International A	r Transport Association
EINECS: European In	ventory of Existing Commercial Chemical Substances
ELINCS: European Li	st of Notified Chemical Substances
CAS: Chemical Abstra	cts Service (division of the American Chemical Society)
LC50: Lethal concentr	ation, 50 percent
LD50: Lethal dose, 50	percent
PBT: Persistent, Bioad	cumulative and Toxic
vPvB: very Persistent	and very Bioaccumulative
Self-heat. 1: Self-heati	ng substances and mixtures – Category 1
Acute Tox. 4: Acute to.	cicity – Category 4
Eye Irrit. 2A: Serious	eye damage/eye irritation – Category 2A
* Data compared	to the previous version altered.