

Printing date 27.07.2021 Revision: 27.07.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: PerkinElmer Advanced Filter System (repl.)
- · Article number: N9303964
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 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
PerkinElmer, Inc.
Chalfont Road Buckinghamshire
Seer Green HP9 2FX
cc.uk@perkinelmer.com
United Kingdom

P: 0800 896 046 F: 0800-89 17 14 PerkinElmer, Inc.

Llantrisant Business Park, Unit A Llantrisant CF72 8YW United Kingdom cc.uk@perkinelmer.com P: 44 1443 234005

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

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Self-heat. 1 H251 Self-heating: may catch fire.



GHS08 health hazard

Carc. 1A H350 May cause cancer.

(Contd. on page 2)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 1)



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- · Hazard pictograms GHS02, GHS07, GHS08, GHS09
- · Signal word Danger
- · Hazard-determining components of labelling:

Quartz (SiO2)

· Hazard statements

H251 Self-heating: may catch fire.

H319 Causes serious eye irritation.

H350 May cause cancer.

H410 Very toxic to aquatic life with long lasting effects.

• Precautionary statements
P235 Keep cool.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P413 Store bulk masses greater than - kg at temperatures not exceeding -°C.

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 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.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

		(Contd. of page 2)
· Dangerous compone	ents:	
CAS: 1318-02-1	Zeolites	45.0%
EINECS: 215-283-8	♦ Eye Irrit. 2, H319	
CAS: 7440-44-0	carbon	28.0%
EINECS: 231-153-3	♦ Flam. Sol. 1, H228	
CAS: 1313-13-9	manganese dioxide	10.0%
EINECS: 215-202-6	♦ Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 1317-38-0	copper(II) oxide	5.0%
EINECS: 215-269-1	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 14808-60-7	Quartz (SiO2)	1.0%
EINECS: 238-878-4	🕸 Carc. 1A, H350	
· Additional Compone	ents	
1327-43-1 Alumini	um Magnesium Silicate	10.5%
10034-96-5 Mangar	n(II)-sulfat-Monohydrat	0.5%
· Additional informati	ion: For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

- · 4.1 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. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

(Contd. on page 4)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 3)

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

- · 7.2 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.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

7440-44-0 carbon

WEL Long-term value: 10* 4** mg/m³
*inhalable dust **respirable

1313-13-9 manganese dioxide

WEL Long-term value: 0.2* 0.05** mg/m³ as Mn *inhalable fraction **respirable fraction

1317-38-0 copper(II) oxide

WEL Short-term value: 2 mg/m³
Long-term value: 1 mg/m³
dusts and mists, as Cu

- Additional information: The lists valid during the making were used as basis.
- · 8.2 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.

(Contd. on page 5)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 4)

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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:



Tightly sealed goggles

SECTION 9: Phy.	sical and c	hemical p	properties
-----------------	-------------	-----------	------------

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

Form: Solid

Colour: According to product specification

Odour: Characteristic · Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 2230 °C

Not applicable. · Flash point:

· Flammability (solid, gas): >370 °C Ignition temperature:

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard. Not determined.

Not determined.

(Contd. on page 6)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

	(Contd. c	of page
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
· Density:	Not determined.	
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:	70.0 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity

May cause cancer.

· Reproductive toxicity Based on available data, the classification criteria are not met.

(Contd. on page 7)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 6)

- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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

SECTION 13: Disposal considerations

- · 13.1 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.

SECTION 14: Transport information			
· 14.1 UN-Number · ADR, IMDG, IATA	UN3190		
· 14.2 UN proper shipping name			
· ADR	3190 SELF-HEATING SOLID, INORGANIC, N.O.S. (Activate copper oxide), ENVIRONMENTALLY HAZARDOUS		
· IMDG, IATA	SELF-HEATING SOLID, INORGANIC, N.O.S. (Activate copper oxide)		
	(Contd. on page		

n page o



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 7) · 14.3 Transport hazard class(es) $\cdot ADR$ · Class 4.2 Substances liable to spontaneous combustion. ·Label 4.2 · IMDG, IATA · Class 4.2 Substances liable to spontaneous combustion. ·Label 4.2 · 14.4 Packing group · ADR, IMDG, IATA II· 14.5 Environmental hazards: · Marine pollutant: No · Special marking (ADR): Symbol (fish and tree) Warning: Substances liable to spontaneous combustion. · 14.6 Special precautions for user F-A,S-J· EMS Number: · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · Limited quantities (LQ) Code: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g · IMDG Code: E2 · Excepted quantities (EQ) 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

GB



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 8)

SECTION 15: Regulatory information						
· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture						
CAS: 1318-02-1 EINECS: 215-283-8	Zeolites	🅸 Eye Irrit. 2, H319	45.0%			
CAS: 7440-44-0 EINECS: 231-153-3	carbon	♠ Flam. Sol. 1, H228	28.0%			
CAS: 1327-43-1	Aluminum Magnesium Silicate		10.5%			

- · 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
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · 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.

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.

- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H228 Flammable solid.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H350 May cause cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 10)



Printing date 27.07.2021 Revision: 27.07.2021

Trade name: PerkinElmer Advanced Filter System (repl.)

(Contd. of page 9)

· Department issuing SDS:

Environmental, Health and Safety

PerkinElmer Chalfont Road Buckinghamshire Seer Green HP9 2FX

United Kingdom

Telephone: 0800-89 60 46 FAX: 0800-89 17 14

· Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids – Category 1

Self-heat. 1: Self-heating substances and mixtures - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 1A: Carcinogenicity - Category 1A

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

* Data compared to the previous version altered.