

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

1 Identification

- **Product identifier**
- **Trade name:** PKI-Pure Glass High Sens - 1/8" Brass
- **Article number** N9303968
- **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.



Acute Tox. 4 H312 Harmful in contact with skin.

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
- **Signal word** Danger

- **Hazard-determining components of labeling:**

Aluminum Magnesium Silicate
Quartz (SiO₂)

- **Hazard statements**

H312 Harmful in contact with skin.
H320 Causes eye irritation.
H350 May cause cancer.

- **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 1)

- 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.*
- P312 *Call a poison center/doctor if you feel unwell.*
- P321 *Specific treatment (see on this label).*
- P362+P364 *Take off contaminated clothing and wash it before reuse.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- 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.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

· **Hazardous components:**

1318-02-1	Zeolites	Eye Irrit. 2B, H320	76.0%
14808-60-7	Quartz (SiO ₂)	Carc. 1A, H350	4.0%
10034-96-5	Mangan(II)-sulfat-Monohydrat		3.0%

· **Additional Components**

1327-43-1	Aluminum Magnesium Silicate		17.0%
-----------	-----------------------------	--	-------

USA

(Contd. on page 3)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
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; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **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.
- **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:** 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:**

14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
10034-96-5	Mangan(II)-sulfat-Monohydrat	9.2 mg/m ³

· **PAC-2:**

14808-60-7	Quartz (SiO ₂)	33 mg/m ³
10034-96-5	Mangan(II)-sulfat-Monohydrat	15 mg/m ³

· **PAC-3:**

14808-60-7	Quartz (SiO ₂)	200 mg/m ³
------------	----------------------------	-----------------------

(Contd. on page 4)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

10034-96-5 Mangan(II)-sulfat-Monohydrat

(Contd. of page 3)

90 mg/m³

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 remaining constituent has no known exposure limits.

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

10034-96-5 Mangan(II)-sulfat-Monohydrat

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

- **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.

(Contd. on page 5)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 4)

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.

· 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:



Tightly sealed goggles or safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Solid
Color:	According to product specification
· Odor:	Characteristic
· 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.

(Contd. on page 6)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 5)

· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard. Not determined.</i>
· Explosion limits: Lower: Upper:	<i>Not determined. Not determined.</i>
· Vapor pressure:	<i>Not applicable.</i>
· Density: · Relative density · Vapor density · Evaporation rate	<i>Not determined. Not determined. Not applicable. Not applicable.</i>
· Solubility in / Miscibility with Water:	<i>Not miscible or difficult to mix.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity: Dynamic: Kinematic:	<i>Not applicable. Not applicable.</i>
· Solvent content: VOC content:	<i>0.00 %</i>
Solids content:	<i>4.0 %</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:**

· LD/LC50 values that are relevant for classification:		
1318-02-1 Zeolites		
Oral	LD50	>10000 mg/kg (rat)
		>2000 mg/kg (rabbit)

(Contd. on page 7)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 6)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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
14808-60-7	Quartz (SiO ₂)	1

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
------------	----------------------------	---

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

None of the ingredients is listed.

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:**
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:**
Dispose of container and materials in accordance with local, regional and national regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

USA

(Contd. on page 8)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021


Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 7)

14 Transport information

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Non regulated according to above specifications. Void

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture			
1318-02-1	Zeolites	Eye Irrit. 2B, H320	76.0%
1327-43-1	Aluminum Magnesium Silicate		17.0%
14808-60-7	Quartz (SiO2)	 Carc. 1A, H350	4.0%
· Sara			
· Section 355 (extremely hazardous substances): None of the ingredients is listed.			
· Section 313 (Specific toxic chemical listings):			
10034-96-5	Mangan(II)-sulfat-Monohydrat		
· TSCA (Toxic Substances Control Act):			
1327-43-1	Aluminum Magnesium Silicate		ACTIVE
14808-60-7	Quartz (SiO2)		ACTIVE
· Hazardous Air Pollutants			
10034-96-5	Mangan(II)-sulfat-Monohydrat		
· Proposition 65			
· Chemicals known to cause cancer:			
14808-60-7	Quartz (SiO2)		
· Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.			

(Contd. on page 9)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 8)

· **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.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

10034-96-5 Mangan(II)-sulfat-Monohydrat

D

· **TLV (Threshold Limit Value established by ACGIH)**

14808-60-7 Quartz (SiO₂)

A2

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

14808-60-7 Quartz (SiO₂)

· **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

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)

(Contd. on page 10)

acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

Trade name: PKI-Pure Glass High Sens - 1/8" Brass

(Contd. of page 9)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Carc. 1A: Carcinogenicity – Category 1A
· *** Data compared to the previous version altered.**

USA