Printing date 07/20/2021

Reviewed on 07/20/2021

1 Identification

- · Product name
- · Trade name: Magnesium fluoride (99.99+%-Mg) PURATREM
- Item number: 93-1226
- · CAS Number:
- 7783-40-6
- *EC number:* 231-995-1
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Strem Chemicals, Inc.
- 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

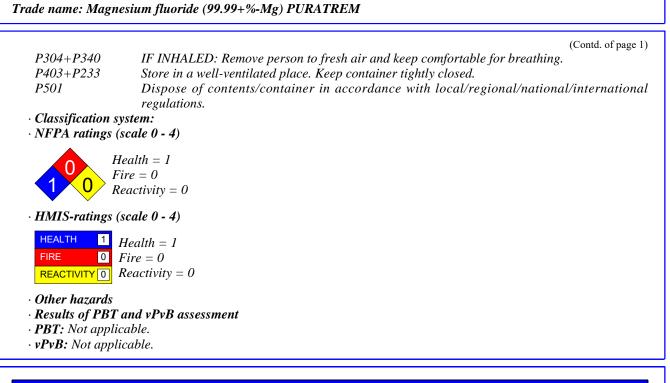
Hazard-determining components of labeling: magnesium fluoride
Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statements
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye 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.

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3 Composition/information on ingredients

- Chemical characterization: Substances
 CAS No. Description
 7783-40-6 magnesium fluoride
- · Identification number(s)
- \cdot Identification number(s)
- EC number: 231-995-1

4 First-aid measures

· Description of first aid measures

- After inhalation: 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: 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.

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(Contd. of page 2)

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:	
	12 mg/n
PAC-2:	
	140 mg/n
PAC-3:	

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.
- \cdot 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 wi	ith limit values tha	t require monitoring	at the workplace:

7783-40-6 magnesium fluoridePELLong-term value: 2.5 mg/m³
as FRELLong-term value: 2.5 mg/m³
as FTLVLong-term value: 2.5 mg/m³
as F, BEI

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	(Contd. of pa
· Ingredients with biologic	· · · · · · · · · · · · · · · · · · ·
7783-40-6 magnesium fl	uoride
BEI 2 mg/L	
Medium: urine	
Time: prior to shift	
Parameter: Fluoride	e (background, nonspecific)
3 mg/L	
Medium: urine	
<i>Time: end of shift</i>	
	e (background, nonspecific)
• Additional information:	The lists that were valid during the creation were used as basis.
• Exposure controls	
· Personal protective equip	
\cdot General protective and h	
Keep away from foodstuf	
	oiled and contaminated clothing.
Wash hands before break	v v
Avoid contact with the ey	
• Breathing equipment: A • Protection of hands:	NIOSH approved respirator in accordance with 29 CFR 1910.134.
• I rolection of nunus.	
Protective glo	ves
Due to missing tests no r chemical mixture. Selection of the glove material Material of gloves	
	n time has to be found out by the manufacturer of the protective gloves and has t
observed.	
· Eye protection:	
Tightly sealed	goggles
Physical and chemic	al properties
· Information on basic nh	ysical and chemical properties
· General Information	· · · · · · · · · · · · · · · · · · ·
· Appearance:	
Form:	Chunks
Color:	Whitish
· Odor:	Odorless
	(Contd. on pa

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Trade name:	Magnesium	fluoride	(99.99+%-Mg)	PURATREM
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		(Contd. of page
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	1.248 °C (34 °F)	
Boiling point/Boiling range:	2.239 °C (36 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
<i>Density at 20 •C (68 •F):</i>	3 g/cm ³ (25.035 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
<i>Water at 20 °C (68 °F):</i>	0.087 g/l	
Partition coefficient (n-octanol/wat	t er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
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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Trade name: Magnesium fluoride (99.99+%-Mg) PURATREM

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3

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not 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: Not known to be hazardous to water.
- · 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.

· UN-Number		
· DOT, ADN, IMDG, IATA	not regulated	
· UN proper shipping name		
· DOT, ADN, IMDG, IATA	not regulated	

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	(Contd. of page 6
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
· UN ''Model Regulation'':	not regulated

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely nazaraous substances):
Substance is not listed.
· Section 313 (Specific toxic chemical listings):
Substance is not listed.
· TSCA (Toxic Substances Control Act):
Substance is listed.
· Proposition 65

1. . .

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

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

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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Safety Data Sheet according to OSHA HCS

Printing date 07/20/2021

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

REL. Recommended Exposure Limit BEI: Biological Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Reviewed on 07/20/2021

rinting date 07/20/	2021 Reviewed on 07/20	//202
ade name: Magn	esium fluoride (99.99+%-Mg) PURATREM	
· Hazard pictogra	(Contd. of	page 7
A		
GHS07		
· Signal word Wa	urning	
· Hazard-determi	ining components of labeling:	
magnesium fluo		
• Hazard stateme		
H315 Causes sk		
	rious eye irritation.	
	e respiratory irritation.	
• Precautionary s		
P262 P280	Do not get in eyes, on skin, or on clothing. Wear protective cloves/protective electrice/eye protection/face protection	
	Wear protective gloves/protective clothing/eye protection/face protection. 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if p	r050+
1 303+1 331+1.	and easy to do. Continue rinsing.	resen
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P501	Dispose of contents/container in accordance with local/regional/national/interna	tiona
	regulations.	
· Chemical safety	assessment: A Chemical Safety Assessment has not been carried out.	
6 Other inform	ation	
	on is based on our present knowledge. However, this shall not constitute a guarantee fo	or an
specific product	features and shall not establish a legally valid contractual relationship.	
· Department issu	uing SDS: Technical Department.	
· Contact: Techni		
	tion / last revision 07/20/2021 / -	
• Abbreviations a		
	péen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Intern ous Goods by Road)	ationa
	Il Maritime Code for Dangerous Goods	
DOT: US Departme		
	Air Transport Association Conference of Governmental Industrial Hygienists	
	Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abs	tracts Service (division of the American Chemical Society)	
	re Protection Association (USA)	
	Aaterials Identification System (USA) nic Compounds (USA, EU)	
	paccumulative and Toxic	
	nt and very Bioaccumulative	
	stitute for Occupational Safety al Safety & Health	
OSHA: Occupationa TLV: Threshold Lim		
PEI · Parmissibla F		