

Printing date 07/20/2021

Reviewed on 07/20/2021

1 Identification

- · Product name
- · Trade name: <u>Magnesium fluoride, 99%</u>
- Item number: 93-1225
- · 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. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May 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.

(Contd. on page 2)

US

Printing date 07/20/2021

CHEMICALS.

Reviewed on 07/20/2021

Trade name: Magnesium fluoride, 99%

P304+P340	(Contd. of page 1) 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/international regulations.
· Classification sy	stem:
· NFPA ratings (s	
MITA raungs (s	
Fi	ealth = 1 re = 0 eactivity = 0
· HMIS-ratings (s	cale 0 - 4)
FIRE 0 F	$\begin{aligned} Health &= 1\\ Fire &= 0\\ Reactivity &= 0 \end{aligned}$
• Other hazards	
	and vPvB assessment
0	
• PBT: Not applied	
• vPvB: Not applie	cable.

3 Composition/information on ingredients

- Chemical characterization: Substances
 CAS No. Description
 7783-40-6 magnesium fluoride
- · 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.

(Contd. on page 3)

Printing date 07/20/2021

CHEMICALS, INC

Reviewed on 07/20/2021

Trade name: Magnesium fluoride, 99%

(Contd. of page 2)

Personal precautions, protective equipment and emerged	
Environmental precautions: No special measures requir	
Methods and material for containment and cleaning up	
Dispose contaminated material as waste according to iter	<i>m</i> 13.
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equa	ipment.
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
	12 mg/n
PAC-2:	
	140 mg/n
PAC-3:	
<i>PAC-3:</i>	820 mg.

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 with	limit values that	require monitoring	at the workplace:

7783-40-6 magnesium fluoride PEL Long-term value: 2.5 mg/m³ as F REL Long-term value: 2.5 mg/m³ as F

TLV Long-term value: 2.5 mg/m³ as F, BEI

(Contd. on page 4)

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CHEMICALS, INC.

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Trade name: Magnesium fluoride, 99%

	(Contd. of page 3
Ingr	edients with biological limit values:
-	-40-6 magnesium fluoride
	2 mg/L
	Medium: urine
	Time: prior to shift
	Parameter: Fluoride (background, nonspecific)
	3 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Fluoride (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	d contact with the eyes and skin.
	<i>thing equipment:</i> A NIOSH approved respirator in accordance with 29 CFR 1910.134. ection of hands:
Due chen Selec Mate The varie Pene The obse	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the tical mixture. extion of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality an est from manufacturer to manufacturer. extration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be rved.
Phy	Tightly sealed goggles
	rmation on basic physical and chemical properties eral Information

Form:	Powder
Color:	White
Odor:	Odorless

(Contd. on page 5)

US

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CHEMICALS, INC.

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Trade name: Magnesium fluoride, 99%

		(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.	
Density at 20 °C (68 °F):	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/wa	ter): 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.
- $\cdot \textit{Hazardous decomposition products:} No \ dangerous \ decomposition \ products \ known.$

(Contd. on page 6)

Printing date 07/20/2021

CHEMICALS, INC

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(Contd. of page 5)

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.
- 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 . MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

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

· Section 355 (extremely hazardous 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
· 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)
44

· 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).

(Contd. on page 8)

A4

US

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· Hazard pictogr	ams	(Contd. of page
	ums	
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GHS07		
Signal word Wa	arning	
	ining components of labeling:	
magnesium fluo		
· Hazard stateme		
H315 Causes sk		
	erious eye irritation.	
	se respiratory irritation.	
• Precautionary		
P262	Do not get in eyes, on skin, or on clothing.	_
P280	Wear protective gloves/protective clothing/eye protection/face pro	
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remo	ve contact lenses, if prese
D204 D240	and easy to do. Continue rinsing.	1
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for	or breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	1/
P501	Dispose of contents/container in accordance with local/region	nal/national/internation
	negulations	
	regulations. y assessment: A Chemical Safety Assessment has not been carried out. nation	
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