Printing date 15.07.2021

CHEMICALS, INC.

Revision: 15.07.2021

1.1 Product iden Trade name: <u>Ma</u> Item number: 12	tifier
Item number: 12	agnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)
	2-4000
CAS Number:	
60871-83-2	
	ntified uses of the substance or mixture and uses advised against
No further releve	ant information available.
	e supplier of the safety data sheet
Manufacturer/S	
Strem Chemicals	s, Inc.
7 Mulliken Way	T MA 01050
NEWBURYPOR USA	1, MA 01950
info@strem.com	
v	
	ation obtainable from: Technical Department telephone number:
	<i>CHEMTREC:</i> + 1 (800) 424-9300
	opening times: +1 (978) 499-1600
<b>SECTION 2:</b>	Hazards identification
2.2 Label elemen	
2.2 Label elemen Labelling accord	nts ding to Regulation (EC) No 1272/2008
2.2 Label elemen Labelling accord	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
<b>2.2 Label elemen</b> Labelling accord The substance is	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
<b>2.2 Label elemen</b> Labelling accord The substance is	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
<b>2.2 Label elemen</b> Labelling accord The substance is	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
<b>2.2 Label elemen</b> <b>Labelling accord</b> The substance is	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
2.2 Label element Labelling accord The substance is Hazard pictogra	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determin	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling:
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determin	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: uoromethanesulfonate, min. 98% (Magnesium triflate)
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium triflu Hazard statement H335 May cause	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: uoromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium trifth Hazard statement H335 May cause Precautionary st	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: woromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium trifth Hazard statement H335 May cause Precautionary state P101	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: uoromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium triffit Hazard statement H335 May cause Precautionary sta P101 P102	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: uoromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand. Keep out of reach of children.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium triffut Hazard statement H335 May cause Precautionary su P101 P102 P103	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: woromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium triffut Hazard statement H335 May cause Precautionary su P101 P102 P103 P231	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: woromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium trifth Hazard statement H335 May cause Precautionary su P101 P102 P103 P231 P262	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: uoromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas. Do not get in eyes, on skin, or on clothing.
2.2 Label element Labelling accord The substance is Hazard pictogra GHS07 Signal word Wa Hazard-determint Magnesium trifth Hazard statement H335 May cause Precautionary su P101 P102 P103 P231 P262	nts ding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation. ms rning ning components of labelling: woromethanesulfonate, min. 98% (Magnesium triflate) nts e respiratory irritation. tatements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Handle under inert gas.

Printing date 15.07.2021

Revision: 15.07.2021

#### Trade name: Magnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)

- (Contd. of page 1) P422 Store contents under inert gas. P501 Dispose of contents/container in accordance with local/regional/national/international
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
  - · 2.3 Other hazards
  - · Results of PBT and vPvB assessment
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

· 3.1 Chemical characterisation: Substances

```
· CAS No. Description
```

- 60871-83-2 Magnesium trifluoromethanesulfonate, min. 98% (Magnesium
- triflate)

# **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: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then 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.
- $\cdot$  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 Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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 Open and handle receptacle with care.

(Contd. on page 3)

Printing date 15.07.2021

Revision: 15.07.2021

(Contd. of page 2)

Trade name: Magnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)

• Information about fire - and explosion protection: No special measures required.

· 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.

Store in cool, dry conditions in well sealed receptacles.

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

### SECTION 8: Exposure controls/personal protection

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

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- 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. Wash hands before breaks and at the end of work.
- · 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. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

· 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: Safety glasses

• 9.1 Information on basic physical a • General Information	nd chemical properties	
· Appearance:		
Form:	Powder	
Colour:	White	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition Melting point/freezing point:	Undetermined.	
		(Contd. on page 4)

\_\_\_\_C

Printing date 15.07.2021

CHEMICALS,

Revision: 15.07.2021

#### Trade name: Magnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)

	(Contd. o	of pag	
Initial boiling point and boiling range	e: Undetermined.		
Flash point:	Not applicable.		
Flammability (solid, gas):	Not determined.		
Ignition temperature:			
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Not determined.		
Explosive properties:	Product does not present an explosion hazard.		
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:	Insoluble.		
Partition coefficient: n-octanol/water:	Not determined.		
Viscosity:			
Dynamic:	Not applicable.		
Kinematic:	Not applicable.		
Solvent content:			
Organic solvents:	0.0 %		
VOC (EC)	0.00 %		
Solids content:	100.0 %		
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 Based on available data, the classification criteria are not met.

(Contd. on page 5)

GB

Printing date 15.07.2021

Revision: 15.07.2021

Trade name: Magnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)

- (Contd. of page 4)
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
   Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- 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.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 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.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	
14.4 Packing group		
ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:		
Marine pollutant:	No	



Printing date 15.07.2021

CHEMICALS, INC

Revision: 15.07.2021

(Contd. of page 5)

Trade name: Magnesium trifluoromethanesulfonate, min. 98% (Magnesium triflate)

- · 14.6 Special precautions for user
- Not applicable.
- · 14.7 Transport in bulk according to Annex II of
- Marpol and the IBC Code Not applicable.
- · UN ''Model Regulation'':

not regulated

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

- · Contact: Technical Director
- 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
   IATA: International Air Transport Association
   GHS: Globally Harmonised System of Classification and Labelling of Chemicals
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   VOC: Volatile Organic Compounds (USA, EU)
   PBT: Persistent, Bioaccumulative and Toxic
   vPvB: very Persistent and very Bioaccumulative
   STOT SE 3: Specific target organ toxicity (single exposure) Category 3