# Printing date 07/30/2016

**STRE** 

CHEMICALS, INC.

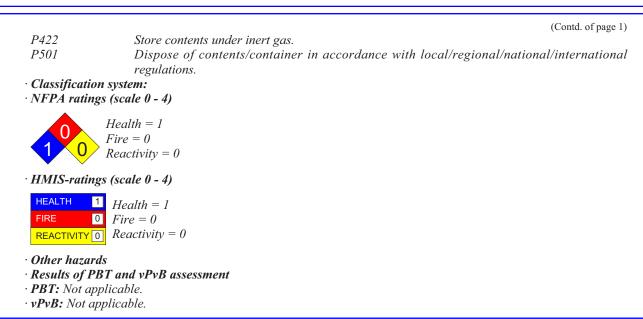
Reviewed on 07/30/2016

Identification	
Product name	
Trade name: <u>1-</u>	Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO4]
Item number: 0	7-0150
CAS Number:	
445473-58-5	
· Details of the su	upplier of the safety data sheet
· Manufacturer/S	
Strem Chemical	s, Inc.
7 Mulliken Way	
NEWBURYPOR	T, MA 01950
USA	
info@strem.com	
	partment: Technical Department
· Emergency telep	
	CHEMTREC: + 1 (800) 424-9300
During normal of	opening times: +1 (978) 499-1600
Hazard(s) ide	ntification
· Classification o	f the substance or mixture
$\mathbf{A}$	
GHS(	17
Skin Irrit 2 H	315 Causes skin irritation.
	<i>B19 Causes serious eye irritation.</i>
•	
	335 May cause respiratory irritation.
· Label elements	
· GHS label elem	
· Hazard pictogra	classified and labeled according to the Globally Harmonized System (GHS).
nazara piciogra	ms
$\sim$	
GHS07	
• Signal word Wa	rning
0	ning components of labeling:
	limidazolium octylsulfate, 98% [BMIM] [OcSO4]
· Hazard stateme	
H315 Causes sk	rious eye irritation.
H319 Causes set H335 May cause	e respiratory irritation.
H319 Causes set H335 May cause • <b>Precautionary s</b>	tatements
H319 Causes set H335 May cause • <b>Precautionary s</b> P231	tatements Handle under inert gas.
H319 Causes set H335 May cause Precautionary s P231 P262	<b>tatements</b> Handle under inert gas. Do not get in eyes, on skin, or on clothing.
H319 Causes set H335 May cause Precautionary s P231 P262	tatements Handle under inert gas. Do not get in eyes, on skin, or on clothing. 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres
H319 Causes set H335 May cause <b>Precautionary s</b> P231 P262	<b>tatements</b> Handle under inert gas. Do not get in eyes, on skin, or on clothing.

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#### Trade name: 1-Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO<sub>4</sub>]



#### 3 Composition/information on ingredients

· Chemical characterization: Substances

- · CAS No. Description
- 445473-58-5 1-Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO4]

### 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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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#### **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.

#### 7 Handling and storage

#### · Handling:

- · Precautions for safe handling Open and handle receptacle with care.
- · 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.
- Store in cool, dry conditions in well sealed receptacles.
- 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: Not required.
- *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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. 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:



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.

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### Trade name: 1-Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO\_]

- (Contd. of page 3) 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:

Tightly sealed goggles

# 9 Physical and chemical properties

· Information on basic physical and c	hemical properties	
· General Information		
· Appearance:		
Form:	Solid	
Color:	Beige	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition		
Melting point/Melting range:	37 °C (99 °F)	
Boiling point/Boiling range:	no data °C	
· 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 appli hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wate	<b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
		(Contd. on page



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#### Trade name: 1-Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO4]

		(Contd. of page 4
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.

### **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)

Substance is not listed.

·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.

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· 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.

· 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
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 of	<i>f</i>
MARPOL73/78 and the IBC Code	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 not listed.

- · Proposition 65
- · Chemicals known to cause cancer:
- Substance is not listed.
- Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

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<sup>•</sup> Uncleaned packagings:

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· 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)

Substance is not listed.

#### ·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).* • *Hazard pictograms* 



· Signal word Warning

· Hazard-determining components of labeling: 1-Butyl-3-methylimidazolium octylsulfate, 98% [BMIM] [OcSO4] · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. · Precautionary statements P231 Handle under inert gas. P262 Do not get in eyes, on skin, or on clothing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P422 Store contents under inert gas. Dispose of contents/container in accordance with local/regional/national/international P501 regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **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
- · Date of preparation / last revision 07/30/2016 / -
- 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

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(Contd. of page 7) IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) 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 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3