

	Revision Date 17.01.2014	Version 3.0
CTION 1. Identification of the su	ubstance/mixture and of the company,	/undertaking
1.1 Product identifier		
Catalogue No.	490092	
Product name	1-Butyl-3-methylimidazolium bis(triflessynthesis	uoromethylsulfonyl)imide for
REACH Registration Number	A registration number is not availabl substance or its use are exempted f Article 2 REACH Regulation (EC) No does not require a registration or the later registration deadline.	rom registration according to o 1907/2006, the annual tonnage
CAS-No.	174899-83-3	
1.2 Relevant identified uses of th	e substance or mixture and uses adv	ised against
Identified uses	Reagent for development and resea For additional information on uses p portal (www.merck-chemicals.com).	lease refer to the Merck Chemicals
1.3 Details of the supplier of the	safety data sheet	
Company	Merck KGaA * 64271 Darmstadt * G	ermany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merck@	group.com
1.4 Emergency telephone number	Please contact the regional compared	ny representation in your country.

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3, Oral, H301 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC)

Toxic

R25

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Т

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



Signal word Danger

Catalogue No.490092Product name1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

Hazard statements H301 Toxic if swallowed.

Precautionary statements Response P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word Danger

Hazard statements H301 Toxic if swallowed.

Precautionary statements P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

CAS-No. 174899-83-3

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	C8H15N2 C2F6NO4S2	C10H15F6N3O4S2 (Hill)
Molar mass	419,37 g/mol	

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration) CAS-No. Registration number Classification 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide (<= 100 %) 174899-83-3 *)

Acute toxicity, Category 3, H301

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Hazardous components (1999/45/EC)

Chemical Name (Concentration)CAS-No.Classification1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide (<= 100 %)</td>174899-83-3T, Toxic; T; R25

For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Mixture

not applicable

Catalogue No.490092Product name1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Hydrogen fluoride, nitrogen oxides, Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

Catalogue No.	490092
Product name	1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Tull contact.		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

Catalogue No.	490092
Product name	1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when vapours/aerosols are generated.

Empfohlener Filtertyp: filter ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
Odour Threshold	not applicable
рН	7 at 20 °C Aqueous solution
Melting point	2 °C
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.

Catalogue No. Product name	490092 1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis
Relative density	1,44 g/cm³
Water solubility	No information available.
Partition coefficient: n-	No information available.
octanol/water	
. .	
	Not classified as explosive.
	none
Auto-ignition temperature Decomposition temperature Viscosity, dynamic Explosive properties Oxidizing properties 9.2 Other data	No information available. No information available. No information available. Not classified as explosive. none

none

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity acute oral toxicity cat. 3 (in analogy to similar products) Expert judgement

absorption Symptoms: We have no description of any toxic symptoms.

Acute inhalation toxicity This information is not available.

Acute dermal toxicity This information is not available.

Catalogue No.	490092
Product name	1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

Skin irritation

This information is not available.

Eye irritation This information is not available.

Sensitisation

This information is not available.

Germ cell mutagenicity This information is not available.

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

No information available.

- **12.2 Persistence and degradability** No information available.
- **12.3 Bioaccumulative potential** No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

Catalogue No.490092Product name1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)	
14.1 UN number	UN 2810
14.2 Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (1-BUTYL-3- METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHYLSULFONYL)IMIDE)
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
Tunnel restriction code	E
Inland waterway transport (ADN) Not relevant	
Air transport (IATA)	
14.1 UN number	UN 2810
14.2 Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (1-BUTYL-3- METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHYLSULFONYL)IMIDE)
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions for user	no
Sea transport (IMDG)	
14.1 UN number	UN 2810
14.2 Proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (1-BUTYL-3- METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHYLSULFONYL)IMIDE)
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
EmS	F-A S-A

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

Catalogue No.	490092
Product name	1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis

SECTION 15. Regulatory information

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

· · · · · · · · · · · · · · · · · · ·		
EU regulations		
Major Accident Hazard Legislation	96/82/EC Toxic	
Logiolation	2	
	Quantity 1: 50 t	
	Quantity 2: 200 t	
Occupational restrictions	work. Observe work r	3/EC on the protection of young people at estrictions regarding maternity protection in 85/EEC or stricter national regulations where
Regulation (EC) No 1005/2 deplete the ozone layer	2009 on substances that	not regulated
Regulation (EC) No 850/20 Parliament and of the Cou persistent organic pollutan Directive 79/117/EEC	ncil of 29 April 2004 on	not regulated
Regulation (EC) No 689/20 and import of dangerous c		not regulated
Substances of very high co	oncern (SVHC)	This product does not contain substances of very high concern above the respective regulatory limit (> 0.1 % (w/w) Regulation (EC) No 1907/2006 (REACH), Article 57).
National legislation		
Storage class	6.1C	
15.2 Chemical Safety Assess	sment	
For this product a chemica		not carried out.
SECTION 16. Other information		
Full text of H-Statements r		2 and 3.
H301	Toxic if swallowed.	
Full text of R-phrases refe		nd 3
R25	Toxic if swallowed.	
Training advice Provide adequate informat	ion, instruction and trainin	g for operators.
Labelling (67/548/EEC or	1999/45/EC)	
Symbol(s) 😹 T	Toxic	
<i>R-phrase(s)</i> 25	Toxic if swa	allowed.
<i>S-phrase(s)</i> 37-45	Wear suital	ble gloves. In case of accident or if you feel

unwell, seek medical advice immediately (show the label

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

Catalogue No. Product name

```
490092
1-Butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide for synthesis
```

where possible).

Further information Caution - substance not yet tested completely.

Reduced labelling (≤125 ml)	
Symbol(s) T	Toxic
<i>R-phrase(s)</i> 25	Toxic if swallowed.
<i>S-phrase(s)</i> 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.