



	Reviewed on 02/15/2008
1 Identification Broduct identifier	
Product identifier Product name: 1-Butyl-2,3-dimethylimidazolium chloride	!
Stock number: H27270 CAS Number: 98892-75-2 Relevant identified uses of the substance or mixture and uses advised against.	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number:	
Call Carechem 24 at +44 (0) 1865 407333 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Careche	əm 24 at (866) 928-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 98892-75-2 1-Butyl-2,3-dimethylimidazolium chloride	
4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After own contact Bing openand own for powerel minutes under rupping water. Then eapout a destar	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alco Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	hol resistant foam.
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.	

Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.

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Product name: 1-Butyl-2,3-dimethylimidazolium chloride

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 Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Information about protection against explosions and fires: No information known.

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: Store away from oxidizing agents. Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

Exposure controls

Personal protective equipment

The usual protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form: Crystalline powder Color: White	
Odor: Not determined Odor threshold: Not determined.	
pH-value: Not applicable.	
Change in condition Melting point/Melting range: 89-93 °C (192-199 °F) Boiling point/Boiling range: Not determined Sublimation temperature / start: Not determined	
Flash point: Not applicable Flammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined Auto igniting: Not determined	
Danger of explosion:Product does not present an explosion hazard.Explosion limits:Product does not present an explosion hazard.Lower:Not determinedUpper:Not determinedVapor pressure:Not applicable.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility withNot determined.Water:Not determined.Viscosity:Not determined.dynamic:Not applicable.kinematic:Not applicable.Other informationNot applicable.	

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. **Conditions to avoid** No further relevant information available. **Incompatible materials:** Oxidizing agents

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		newed 011 02/10/2000
Product name: 1-Butyl-2,3-dimethylimidazolium chloride)	
		(Contd. of page 2)
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
Hydrŏgen chloride (HCl)		
11 Toxicological information		
-		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for classification: No data		
Skin irritation or corrosion: May cause irritation Eve irritation or corrosion: May cause irritation		
Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known.	of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive foxicity: No effects known.		
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.		
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effects known.	no the equite and obvious tovicity of this substance is not fully known	
Additional toxicological information: To the best of our knowledg	ge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information ava	ailable.	
Bioaccumulative potential No further relevant information available	le.	
Mobility in soil No further relevant information available. Additional ecological information:		
General notes:		
Do not allow material to be released to the environment without pro Do not allow undiluted product or large quantities to reach ground w	vater. water course or sewage system.	
Avoid transfer into the environment.		
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 Consult state, local or national regulations to en	nsure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be made according to official reg	gulations.	
14 Transport information		
Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name	Maria	
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA Class	None	
Packing group		
DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the	· · · · · · · · · · · · · · · · · · ·	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation specifi	fic for the substance or mixture	
GHS label elements Not applicable		
Hazard pictograms Not applicable Signal word Not applicable		
Hazard statements Not applicable		
National regulations This product is not listed in the U.S. Environmental Protection Agen	ncy Toxic Substances Control Act Chemical Substance Inventory. Use of this	s product is restricted
to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This		
product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed.		
California Proposition 65		
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.		
Prop 65 - Developmental toxicity, female Substance is not listed		
Prop 65 - Developmental toxicity, male Substance is not listed.		
Information about limitation of use: For use only by technically qualified individuals.		

Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed.

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Product name: 1-Butyl-2,3-dimethylimidazolium chloride

Annex XIV of the REACH Regulations (reguirir	ng Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safet	ng Authorisation for use) Substance is not listed. Ty Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent US50: Lethal dose, 50 percent CACGHI: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA