

SAFETY DATA SHEET

Creation Date 19-Apr-2012	eation Date 19-Apr-2012 Revision Date 19-Jan-2018			
	1. Identification			
Product Name	1-Butyl-3-methylimidazolium chloride			
Cat No. :	AC354090000; AC354090050; AC35409025 AC354095000	50; AC354091000;		
CAS-No Synonyms	79917-90-1 No information available			
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use			
Details of the supplier of the sa	fety data sheet			
<u>Company</u> Fisher Scientific	Acros Organics			

Fair Lawn, NJ 07410 Tel: (201) 796-7100

One Reagent Lane

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
1-Butyl-3-methylimidazolium chloride	79917-90-1	>95

	4. First-aid measures
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

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Ingestion	Do not induce vomiting. Call a	physician or Poison Contro	ol Center immediately.
Most important symptoms and	None reasonably foreseeable.		
effects Notes to Physician	Treat symptomatically		
	5. Fire-fighting	measures	
Suitable Extinguishing Media	Use water spray, alcohol-resis		carbon dioxide.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available No information available		
Specific Hazards Arising from the Cl Keep product and empty container awa		nition.	
Hazardous Combustion Products Hydrogen chloride gas Nitrogen oxides Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear. Thermal decomposition	ns for Firefighters thing apparatus pressure-dem	and, MSHA/NIOSH (approv	ved or equivalent) and full
<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental relea	ase measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. I Keep people away from and u Do not flush into surface wate	pwind of spill/leak. Evacuat	te personnel to safe areas.
Methods for Containment and Clean Up	Sweep up or vacuum up spilla formation.	ige and collect in suitable c	ontainer for disposal. Avoid dust
	7. Handling an	d storage	
Handling	Do not get in eyes, on skin, or formation. Use only under a cl ingest.		l protective equipment. Avoid dus breathe vapors/dust. Do not
Storage	Keep in a dry, cool and well-ven nitrogen.	entilated place. Keep conta	iner tightly closed. Keep under
8. Ex	posure controls / p	ersonal protecti	on
Exposure Guidelines	This product does not contain limitsestablished by the region		

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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9. Physical and chemical properties							
Physical State	Solid						
Appearance	Beige						
Odor	No information available						
Odor Threshold	No information available						
рН	No information available						
Melting Point/Range	73 °C / 163.4 °F						
Boiling Point/Range	No information available						
Flash Point	No information available						
Evaporation Rate	Not applicable						
Flammability (solid,gas)	No information available						
Flammability or explosive limits							
Upper	No data available						
Lower	No data available						
Vapor Pressure	No information available						
Vapor Density	Not applicable						
Specific Gravity	No information available						
Solubility	Soluble in water						
Partition coefficient; n-octanol/water	No data available						
Autoignition Temperature							
Decomposition Temperature	No information available						
Viscosity	Not applicable						
Molecular Formula	C8 H15 CI N2						
Molecular Weight	174.67						
-							
10 0	tability and reactivity						

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information Component Information

Component Informa Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation			
, ,		>50 - <300 mg/kg (femal	e rat)	Not listed		t listed			
chloride Foxicologically Syn Products	-		No information available						
Delayed and immed	iate effects as	well as chronic effe	cts from short ar	d long-term expo	sure				
rritation		Irritating to eyes ar	nd skin May cause	irritation of respira	atory tract				
Sensitization		No information ava	ailable						
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient a	as a carcinoge			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
I-Butyl-3-methylimidaz olium chloride	79917-90-1	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava	ailable						
Reproductive Effects		No information ava	No information available.						
Developmental Effe	cts	No information ava	ailable.						
Feratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated ex		Respiratory systen None known	n						
Aspiration hazard		No information ava	No information available						
Symptoms / effects,both acute and No information available delayed									
Endocrine Disrupto	r Information	No information ava	ailable						
Other Adverse Effe	cts	The toxicological p	xicological properties have not been fully investigated.						

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
1-Butyl-3-methylimidazolium chloride	Not listed	LC50: >101.0 mg/l/96h (Danio rerio)	Not listed	EC50: 6.3 mg/l/48 h			
Persistence and Degrada	based on information ava	ilable.					
Bioaccumulation/ Accum	Bioaccumulation/ Accumulation No information available.						
Mobility Will likely be mobile in the environment due to its water solubility.							
	Component		log Pow				
1-Butyl-3-m	ethylimidazolium chloride		-2.7				
	13. Di	sposal considera	ations				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and							

national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s
Proper technical name	1-Butyl-3-methylimidazolium chloride
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
ΙΑΤΑ	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
	15. Regulatory information
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All of the components in the product are on the following Inventory lists: Complete Regulatory Information contained in following SDS's X = listed The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS)

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1-Butyl-3-methylimidazolium	-	-	-	-	460-120		-	-	-	-	-
chloride					-8						

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

<u>U.S.</u>	Federal	Regulations	

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	19-Apr-2012 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS