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Printing date 10.08.2010	Revision: 10.08.2010	
1 Identification of substance Product details		
Trade name	1-n-Butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	
Stock number:	H27177	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com	
	D-76185 Karlsruhe / Germany www.alfa-chemicat.com	
Informing department:	Product safety department.	
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	Xi Irritant	
Information pertaining to particular dangers for man and environment		
for man and environment GHS label elements	R 36/38 Irritating to eyes and skin.	
Gilo laber cicilients	Varning	
	H315 - Causes skin irritation. H319 - Causes serious eye irritation.	
Prevention:	P280 Wear protective gloves.	
Response:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	
	and easy to do. Continue rinsing.	
3 Composition/information on ingredient	s	
Chemical characterization:	ř – – – – – – – – – – – – – – – – – – –	
Designation: (CAS#)	1-n-Butyl-1-methylpyrrolidinium	
g	bis(triflúoromethýlsúlfonyl)imide (CAS# 223437-11-4)	
4 First aid magazing		
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.	
After skin contact	Instantly wash with water and soap and rinse thoroughly.	
	Seek immediate medical advice.	
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.	
Alter Situlioning		
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.	
Special hazards caused by the material, its	Con he released in ease of first	
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide	
	Hydrogen fluoride (HF)	
	Nítrogěn oxides (NOx) Sulphur oxides (SOx)	
Protective equipment:	Wear self-contained breathing apparatus.	
	Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.	
	Ensure adequate ventilation	
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.	
Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.	
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
	See section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
7 Handling and storage		
Handling		
Information for safe handling:	Keep containers tightly sealed.	
	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against		
explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers:	No special requirements.	
Information about storage in one common		
storage facility:	Store away from oxidizing agents. Store away from strong bases.	
Further information about storage	Cloic away nom strong bases.	
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and 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.	
Components with critical values that require monitoring at the workplace:	Not required.	
Additional information:	No data	
	(Contd. on page 2) GB	

Safety Data Sheet according to 1907/2006/EC, Article 31

Trade name 1-n-Butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide

Revision: 10.08.2010

Trade fiame i in Butyr i methylpyrionam	
	(Contd. of page 1)
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
,	Keep away from foodstuffs, beverages and food.
	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations.
Protection of hands: Material of gloves	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. 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. Impervious gloves
Penetration time of glove material	Not determined
Eye protection:	Safety glasses Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour:	Liquid Colourless
Smell:	Odourless
Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined
Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion: Critical values for explosion:	Product is not explosive.
Lower:	Not determined
Upper:	Not determined
Steam pressure: Density	Not determined Not determined
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
10 Stability and reactivity	
Thermal decomposition / conditions to be	
avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Oxidizing agents
Dangerous reactions:	Bases To
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide Hydrogen fluoride
	Nitrogen oxides (NOx) Sulphur oxides (SOx)
11 Toxicological information	
Acute toxicity: Primary irritant effect:	
on the skin: on the eye:	Irritant for skin and mucous membranes. Irritant effect.
Sensitization: Additional toxicological information:	No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information:	
Additional ecological information: General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
	Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
12 Dianocal considerations	
13 Disposal considerations Product:	
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste.
	Mand over to disposers of nazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information Land transport ADR/RID and GGVS/GGVE (or	ross-horder/domestic)
ADR/RID-GGVS/E Class:	None
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None
Marine pollutant:	No
L	(Contd. on page 3) GB

Safety Data Sheet according to 1907/2006/EC, Article 31

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Trade name 1-n-Butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide

	(Contd. of page 2)	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	Xi Irritant	
Risk phrases:	36/38 Irritating to eyes and skin.	
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
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.		
Department issuing data specification sheet Contact: Abbreviations and acronyms:	: Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA: International Air Transport Association ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)	