



Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 So Intri 2. A 1915 Causes skin initiation. Haards not otherwise classified in an initiation. Comparison of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of	Reven	veu 0/1 / 1/14/2007
product name: 1-11-Exp(1-3-methylimidazollumtetrafluoroborate Stock number: Stock number: <t< td=""><td>1 Identification</td><td></td></t<>	1 Identification	
Book number: H27548 Constraintion of the substance or mixture and uses advised against. Book number: H27549 Book number: H27549 <td></td> <td></td>		
GAS Runninger: Resulting of the substance or mixture and uses advised against. Resulting of the substance or mixture and uses advised against. Resulting of the substance or mixture and uses advised against. Results of the substance or mixture and uses advised against. Results of the substance or mixture and uses advised against. Results of the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Constrained to the substance or mixture in accordanc		
Relevant dentified uses of the substance or mixture and uses advised against. Resulting uses 2013 - Sociality consumeria and development Result of the series of the substance or mixture and uses advised against. Result of the series of the substance or mixture and uses advised against. Result of the series of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	CAS Number:	
Binding of the supplier of the safety data sheet In our of same Scientific Chemicals, Inc. We will be approximately approximately data sheet In our of same Scientific Chemicals, Inc. We will be approximately data sheet In our of same Scientific Chemicals, Inc. We will be approximately data sheet Interpretency behavior and the safety and Environmental Department Interpretency behavior and the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior and the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance of nonemality accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance of nonemality accordance protection. Interpretency behavior accordance of nonemality accordance protection. Interpretency behavior accordance accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance accordance with 20 CFR 1910 (OSHA HCS) Interpretency behavior accordance accordance with 20 CFR 1910 (OSHA HCS) <td>244193-50-8 Relevant identified uses of the substance or mixture and uses advised against.</td> <td></td>	244193-50-8 Relevant identified uses of the substance or mixture and uses advised against.	
Manufacturer/Subplic:		
The monoplants is colonal to Chemicals, Inc. We want Him, Mexima Science (Chemicals, Inc.) We want Him, Mexima Science (Mexica) - Friday, Barr Tym EST), call (800) 43-0600. After normal business hours, call Carechem 24 at (800) 928-0789. Paradia - Contribution of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	Manufacturer/Supplier:	
Provide Stress Provide Stress Provide Stress Provide S	Alia Aesar Thermo Fisher Scientific Chemicals, Inc.	
First Biology and Environmental Department Health, Salety and Environmental Provide Health, Salety and Environmental Department Health, Salety and Environmental Provide Health, Salety and Environmental Department Health, Salety and Environmente Department Health, Salety and Environmental Departmen	30 Bond Street Ward Hill, MA 01835-8099	
WWW.dis.com The partners in the	Fax: 800-322-4757	
Emergency (Highnore number: Juming normal business hours, call Carechem 24 at (866) 928-0789. 21 Hazer(s) Identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Simin fit 2 H316 Causes skin inflation. Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Simin fit 2 H316 Causes skin inflation. Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Fasteration of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS		
During normal business hours, (Nonday-Friday, Barn-Tym EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Chasilitation of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Strin Int. 2, H315 Causes skin initiation. France And There are assessed by the information herown. Like idements France And There are assessed by the information herown. Like idements France And There are assessed by the information herown. Like idements France And There are assessed by the information herown. France And There are assessed by the information herown. France And There are assessed by the information herown. France And There are an an and the belied in accordance with 29 CFR 1910 (OSHA HCS) France And There are an advected to a classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) France And There are assessed by the advected to a classified and labeled in accordance and the advected to an advected to a classified and there are an advected to a classified advected to a classified and labeled in accordance and the advected to a classified and advected to a classified advected to classified advected to a classified advected to classi	Emergency telephone number:	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 So Intri 2. A 1915 Causes skin initiation. Haards not otherwise classified in an initiation. Comparison of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of mixture in accordance with 29 CFR 1910 (OSHA HCS). Comparison of the substance of	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0)789.
Server	2 Hazard(s) identification	
Shin Int. 2 H315 Causes serious eye initiation. Hards hot otherwise classified ho information known. Hard pictograms Word Word Signal word Warning Hard Statements (1990 Classified hot information informatinformation information information information informati	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
Ever Init: 2A H319 Causes serious eye irritation. Label elements GMS label elements Margin elements Margin elements Proclutionary statements Proclutionary statement (see or labele). Proclutionary statements Proclutionary statements Proclut	CHS07	
Label elements GKS label elements GKS label elements GKS label elements GKS label elements Figure 1 GKS label elements Figure 1 Figure 1	Skin Irrit. 2 H315 Causes skin irritation.	
Label elements GKS label elements GKS label elements GKS label elements GKS label elements Figure 1 GKS label elements Figure 1 Figure 1	Eye Irrit. 2A H319 Causes serious eye irritation.	
Hazard pictograms Vision Signal word Warning Hazard statements With Causes serious type influence. P305 Passes series. Passes series. Passes series. Passes series. Passes series. Passes series. <t< td=""><td>Label elements</td><td></td></t<>	Label elements	
With States Sector States March scatterements March scatterement March scatterement (see or diversity with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. March scatterement (see or mole lacit) March scatterement (see or lacit) = 1 Physical Hazard = 1 Other hazards March scatterement (see or lacit) =	GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
Starl word Warning Hast causes Skin fination: Page Protective gloves/protective clothing/eye protection/face protection. Page Protective gloves/protective gloves/protective clothing/eye protection. Page Protective gloves/protective gloves/protective gloves/protective clothing/eye protection. Page Protective gloves/protective gloves/protective gloves/protective gloves/protective/gloves/gloves/protective/gloves/protective/gloves/g	\wedge	
Starl word Warning Hast causes Skin fination: Page Protective gloves/protective clothing/eye protection/face protection. Page Protective gloves/protective gloves/protective clothing/eye protection. Page Protective gloves/protective gloves/protective gloves/protective clothing/eye protection. Page Protective gloves/protective gloves/protective gloves/protective gloves/protective/gloves/gloves/protective/gloves/protective/gloves/g		
Hazard statements Hata Causes skin irritation. Hata Causes skin irritation course in this label). Hata Causes for contain the course of this label). Hata Causes for contain the course of this label). Hata Causes for contain the course of this label). Hata Causes for course in the course of this label). Hata Causes for course in the course of this label). Hata Causes for course in the course of this label. Hata Causes for course in the course of this label. Hata Causes for course in the course of this label. Hata Causes for course of this label. Hata Causes for course of this label. Hata Causes for course of the course of this label. Hata Causes for course of the cours	GHS07	
Haits Causes skin irritation. Haits Causes serious eye irritation. Precautionary statements Precautionary statements P	Signal word Warning Hazard statements	
Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P280 Protective gloves/protective clothing/eye protection/face protection. P280 Specific reamment (see on this isbei). P331+P333 If yee initiation presists: Get medical advice/attention. P331+P335 If yee initiation presists: Get medical advice/attention. P331+P335 If yee initiation presists: Get medical advice/attention. P331+P335 If yee initiation presists: Get medical advice/attention. P331+P336 If yee initiation presists: Get medical advice/attention. P331+P336 If yee initiation presists: Get medical advice/attention. P331+P335 If yee initiation presists: Get medical advice/attention. P4193-Got P41 Health (acute effects) = 1 <td< td=""><td>H315 Causes skin irritation.</td><td></td></td<>	H315 Causes skin irritation.	
P362 Take off contaminated clothing. P321 Specific treatment less of this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If skin irritation person P34193-50-81-1Hexyl-3-m	Precautionary statements	
P321 Specific treatment (see on this label). P332+P31 If skin irritation occurs: Get medical advice/attention. P337+P31 If skin irritation occurs: Get medical advice/attention. P401 If accurs effects) = 1 Flammability = 1 If accurs arris Fearards Results of PBT and VPVB assessment P51: Not applicable. If P151 Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASt Boscription: 244193-50-81-n-Hexyl-3-methylimidazoliumtetrafluoroborate 4 First-aid measures Medical advice. Medical advice. Affer stai admeasures <t< td=""><td>P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</td><td><i>y.</i></td></t<>	P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	<i>y.</i>
P334P313 If eye inflation persists: Get medical advice/attention. WHMS classification provide attention persists: Get medical advice/attention. D2B - Toxic material causing other toxic effects Image: Sease of the persists of the persists of the persists. Get Part of the persists.	P362 Take on contaminated cioning. P321 Specific treatment (see on this label).	
D2B - Toxic material causing other toxic effects Image: Classification system MMINS rating's (scale 0-4) (Hazardous Materials Identification System) Image: Classification system High: Classification system Health (acute effects) = 1 Flammability = 1 Physical Hazards = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable VPVB: Not applicable 3 Composition/information on ingredients Chemical characterization: Substances CASE Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 4 First-aid measures Description of first aid measures After skin contact Immediately wash with water and scap and rinse thoroughly. Seek immediate medical advice. After skin contact Immediately wash with water and scap and rinse thoroughly. Seek immediate medical advice. After skin emedical advice. After skin end range opened eye for several minutes under running water. Then consult a doctor. After seve medical terment. Immediate medical advice. After seve contact Rinse opened eye for several minutes under	P337+P313 If eye irritation persists: Get medical advice/attention.	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 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 CASH Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 site contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	WHMIS classification D2B - Toxic material causing other toxic effects	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 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 CASH Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 site contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.		
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 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 CASH Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 site contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	\bigcirc	
(Hazardouš Materials Identification System) Image: Planmability = 1 Flanmability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 241193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 Immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eyes contact Rinse opened eye for	Classification system	
Image: Teal of (2000) Final machine (2000) Final machine (2000) Final machine (2000) Physical Hazards Results of PBT and vPvB assessment PBT: Not applicable. VPVB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 After skin contact Immediate medical advice. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Acute and blace	(Hazardous Materials Identification System)	
Percentive() Physical Házard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: Substances 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate Pescription of 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 Immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. 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. Description available.		
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 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.	REACTIVITY Physical Hazard = 1	
PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 immediatel medical advice. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.		
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 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.	PBT: Not applicable.	
Chemical characterization: Substances CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 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.		
CAS# Description: 244193-50-8 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate 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 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.		
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 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.	CAS# Description:	
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 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.		
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 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.		
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. 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.	After inhalation	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. 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.	Seek immediate medical advice.	
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.	Immediately wash with water and soap and rinse thoroughly.	
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	After eye contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
	Information for doctor	
UŠA -	Most important symptoms and effects, both acute and delayed No further relevant information available.	(Contd. on page 2
		UŠA -

Product name: 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate

(Contd. of page 1) 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 alcohol resistant foam. 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required. 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. Ensure good ventilation at the workplace. 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.

Components with limit values that require monitoring at the workplace:

Ition Jerly op ntrol param Jomponents wit. -luorides (as F) mg/m3 ACGIH TLV 2.5 Austria MAK 2.5 Felgium TWA 2.5 re TWA 1; 2-STEL 1; 3-STEL 2 1.5; 7 5 Switzerland MAK-W² 1.5; 3-KZG-W United Kingdom TWA 2.5 Russia TWA 2 Dependent TY Denmark TWA USA PEL 2.5 2.5 Additional information: No data Exposure controls Personal protective equipment rersonal protective equipment General 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. Avoid contact with the eyes and skin. Maintain an erronomically appropriate working environment Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: 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.

Product name: 1-n-HexyI-3-methylimidazoliumtetrafluoroborate

(Contd. of page 2)

9 Physical and chemical propertie Information on basic physical and c General Information	25
Information on basic physical and c General Information	
Appearance:	
Form: Color:	Liquid Colorless
Odor: Odor threshold:	Not determined Not determined.
pH-value:	Not determined.
Change in condition	
<i>Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:</i>	-81 °C (-114 °F) Not determined Not determined
Flash point:	Not determined
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined Not determined
Decomposition temperature: Auto igniting:	Not determined
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower: Upper:	Not determined Not determined
Vapor pressure: Density at 20 °C (68 °F):	Not determined
Relative density	1.149 g/cm³ (9.588 lbs/gal) Not determined.
Vapor density Evaporation rate	Not determined.
Solubility in / Miscibility with	Not determined.
Water: Partition coefficient (n-octanol/wate	Not determined r): Not determined.
Viscosity: dynamic:	Not determined.
kinematic: Other information	Not determined. No further relevant information available.
Incompatible materials: Oxidizing age Hazardous decomposition products	
Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide	ents
Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide 1 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Sensitization: No sensitizing effects k Carcinogenicity: EPA-I: Data are inak Carcinogenicity: PA-I: Data are inak Carcinogenicity: No effects known. Specific target organ system toxicit Specific target organ context of the system cause brain and kidney damage. Chro Subacute to chronic toxicity: No effects Subacute to chronic toxicity: No effects Boron affects the central nervous syste coma. The temperature may become	ents : classification: No data skin irritation. serious eye irritation. nown. actual for an assessment of human carcinogenic potential. yorn. y - repeated exposure: No effects known. y - repeated exposure: No effects known. y - single exposure: No effects known. y - single exposure: No effects known. a, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May price fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. err. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound shock and subnormal and a scarletina form rash may cover the entire body.
Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide 1 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects known Reproductive toxicity: No effects known Specific target organ system toxicit Specific target organ system toxicit Specific target organ system toxicit Specific target organ system toxicit Subacute to chronic toxicity: Fluorides may cause salivation, nause cause brain and kidney damage. Chro Subacute to chronic toxicity: Boron affects the central nervous syste come. The temperature may become Additional toxicological information	ents : classification: No data skin irritation. erious eye irritation. nown. nown. Jequate for an assessment of human carcinogenic potential. mn. y - repeated exposure: No effects known. y - single exposure: No effects known. y - single exposure: No effects known. a, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May price fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. exts known. em. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound shock and
Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide 1 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects known. Specific target organ system toxicit Specific target organ system toxicit Subacute to chronic toxicity: No effe Subacute to chronic toxicity: No effe Subacute to chronic toxicity: Boron affects the central nervous syste coma. The temperature may become Additional toxicological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant in Additional ecological information: General notes:	ents c classification: No data skin irritation. ierious eye irritation. nown. nown. y - repeated exposure: No effects known. y - single exposure: No effects known. y - single exposure: No effects known. a, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May inci fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. acts known. mm. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound shock and subnormal and a scaletina form rash may cover the entire body. c: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. nformation available. relevant information available. relevant information available. ormation available.
Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide 1 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects known Carcinogenicity: EPA-I: Data are inac Reproductive toxicity: No effects known. Subacute to chronic toxicity: Fluorides may cause salivation, nause cause brain and kidney damage. Chro Subacute to chronic toxicity: Boron affects the central nervous syste coma. The temperature may become Additional toxicological information 2 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Mobility in soil No further relevant in Additional ecological information: General notes: Do not allow material to be released to	ents classification: No data skin irritation. erious eye irritation. nown. acquate for an assessment of human carcinogenic potential. wm. y - repeated exposure: No effects known. y - single exposure: No effects known. y - single exposure: No effects known. a, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May nic fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. erist known. m. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound shock and subnormal and a scarletina form rash may cover the entire body. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. nformation available. rher relevant information available. relevant information available. rolevant information available. relevant information

Product name: 1-n-Hexyl-3-methylimidazoliumtetrafluoroborate

(Contd. of page 3) 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information Not a hazardous material for transportation. **UN-Number** DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) 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 IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements Precationary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 Take off contaminated clothing. P321 Specific treatment (see on this label). P322+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this 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.

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. 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.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety 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 Transport Association IATA: International Air Transport Association 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 concentration, 50 percent VPWs very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)