

ersion 1.2	Revision Date 02/07/2015	Print Date 05/27/201
ECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product name	: Molsiv Adsorbents MOLSIV AB 8x	12
MSDS Number	: 8928002	
Product Use Description	: Adsorbents	
Manufacturer or supplier's details	: UOP LLC 25 E. Algonquin Road Des Plaines, IL 60017-5017 USA	
Telephone Telefax	: +1-847-391-2000 : +1-847-391-2253	
In case of emergency call	 Medical: 1-800-498-5701 or +1-30 Transportation (CHEMTREC): 1- 527-3887 	
	: (24 hours/day, 7 days/week)	
CTION 2. HAZARDS IDENTIF	ICATION	
Emergency Overview		
Form	: Beads or pellets	
Color	: white to off-white	
Odor	: none	
Hazard Summary	: Repeated or prolonged exposure respiratory system. When first we to the boiling point of water. Floor	tted, the product can heat up
Potential Health Effects		
Potential Health Effects Skin	: May cause skin irritation. The product gets hot as it first ads	sorbs water.



Instant 1.2 Revision Date 02/07/2015 Print Date 05/2 Eyes : Dust and/or product may cause eye discomfort and/or irritatiseen as tearing and reddening. Ingestion : The product gets hot as it first adsorbs water. Burns to moist body tissue can result if contact is prolonged. Inhalation : Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Chronic Exposure : Prolonged or repeated inhalation may cause lung damage. Primary Routes of Entry : Contact with skin and eyes. Exposure may also occur via inhalation or ingestion if produc dust is generated. Classification of the substance or mixture Not a hazardous substance or mixture. Precautionary statements : Prevention: Use personal protective equipment as required. Hazards not otherwise : The product gets hot as it first adsorbs water. classified : Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as a k or anticipated carcinogen by NTP, IARC, or OSHA. Ctron 3. COMPOSITION/INFORMATION ON INGREDIENTS Chemical nature : Mixture Chemical Name CAS-No. Concentration Zeolite, cuboidal, crystalline, synthetic, non-fibr	128002			
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Zeolite, cuboidal, crystalline, synthetic, non-fibrous1318-02-1>70.00 %Mineral binder999999-99-4<30.00 %	Chemical nature	: Mixture		
Mineral binder 999999-99-4 <30.00 %	Chemical N	lame	CAS-No.	Concentration
	Zeolite, cuboidal, crystalline,	synthetic, non-fibrous	1318-02-1	>70.00 %
Page 2 / 11	Mineral binder		999999-99-4	<30.00 %
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Remove to fresh air. If symptoms persi	ist, call a physician.
Wash off with soap and plenty of water persists, call a physician.	r. If skin irritation
Rinse immediately with plenty of water If eye irritation persists, consult a phys	
Drink at least 2 glasses of water. Obtain Never give anything by mouth to an un	
This product is a desiccant and genera water. The used product can contain m nature. Identify that material and treat	naterial of a hazardous
JRES	
Not combustible. Use extinguishing measures that are circumstances and the surrounding er	
 The product itself does not burn. The used product can retain material Identify that material and inform the fill 	
: In the case of respirable dust and/or f breathing apparatus and dust impervi	
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	n represents the chemical composition of cosition for inventory purposes. See Sec Remove to fresh air. If symptoms persit Wash off with soap and plenty of water persists, call a physician. Rinse immediately with plenty of water If eye irritation persists, consult a phys Drink at least 2 glasses of water. Obtai Never give anything by mouth to an un This product is a desiccant and general water. The used product can contain m nature. Identify that material and treat set URES : Not combustible. Use extinguishing measures that are circumstances and the surrounding efficiency of the surrounding efficienc



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CTION 6. ACCIDENTAL REL	FAS	
Personal precautions	:	For personal protection see section 8.
Environmental precautions	:	No special environmental precautions required.
Methods for cleaning up	:	Sweep, shovel or vacuum spilled product into appropriate containers (do not use a vacuum if material has contacted a hydrocarbon material). Pick up and arrange disposal without creating dust. Never return spills in original containers for re-use. Spilled product should be disposed of in accordance with all applicable government regulations.
CTION 7. HANDLING AND S	TOR	AGE
Handling		
Handling	:	 Handle and open container with care. Avoid dust formation. Avoid contact with skin and eyes. Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks. A copy of UOP's booklet, "Precautions & Safe Practices for Handling Zeolite Molecular Sieve Adsorbents in Process Units", can be obtained from your UOP representative at no cost.
Storage		
Requirements for storage areas and containers	:	Store in original container. Keep in a dry place.
	ROL	S/PERSONAL PROTECTION
CTION 8. EXPOSURE CONT		
Protective measures	:	Handle in accordance with good industrial hygiene and safety practice.



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Engineeri	ng measi	ures	: Ensi	ure adequate	e ventilation, es	pecially in	confined areas.	
Eye prote	ection			ety glasses ety goggles				
Skin and	body prot	ection	: Wor	k uniform an	d gloves to pre	vent prolor	nged contact.	
Respirato	ry protect	lion	equi Air-p	pment. ourifying resp	pirator with NIO	SH classifi	table respiratory ication N-95 filter or re present (42 CFR	
Exposure				1				_
Compor	ients	CAS-No.		Value	Control parameters	Upda te	Basis	
Zeolite, c crystallin synthetic fibrous	e,	1318-	02-1	TWA : time weighted average	1 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values	
Further informat	ion :	Form of e	xposure	: Respirable	e fraction.			
SECTION 9. F	HYSICA			PROPERT	ES			
Physical s	tate		: Bea	ads or pellet	S			
Color			: whi	te to off-whit	te			
Odor			: nor	ie				
рН			: Not	e: Not applie	cable			
Melting po	int/freezir	ng point	: >4	00 °C				
Boiling poi	int/boiling	range	: Not	e: Not applie	cable			
Flash poin	t		: Not	e: Not appli	cable			
				Page 5	/ 11			
				Page 0	/ 11			
1								



Flammability		
Flammability		
	: Not applicable	
Lower explosion limit	: Note: Not applicable	
Upper explosion limit	: Note: Not applicable	
Vapor pressure	: Note: Not applicable	
Vapor density	: Note: Not applicable	
Density	: > 2.0 g/cm3	
Specific gravity	: >2	
Water solubility	: Note: insoluble	
Solubility in other solvents	: Note: no data available	
Partition coefficient: n- octanol/water	: Note: no data available	
Ignition temperature	: Note: Not applicable	
Viscosity, kinematic	: Note: Not applicable	
Bulk density	: Note: not determined	
TION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable	
Incompatible materials to avoid	: Sudden contact with high concentration high heats of adsorption such as olefing When first wetted, the product can here the product can be been such as the	ins, HCI, etc.
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Hazardous decomposition products	of water. Flood with water to cool m : No decomposition if used as directe Hydrocarbons and other materials th during normal use can be retained o It is reasonable to expect that decor come from these retained materials	d. hat contact the product on the product. nposition products will			
SECTION 11. TOXICOLOGICAL I	NFORMATION				
Acute oral toxicity	: LD50: > 32,000 mg/kg Species: Rat				
Acute inhalation toxicity	: Note: no data available				
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit				
Skin irritation	: Species: Rabbit Classification: Not classified as a sk	in irritant in animal testing.			
Eye irritation	: Species: Rabbit Classification: Not classified as an e testing.	ye irritant in animal			
Further information	: Note: The toxicological data has be similar composition.	en taken from products of			
SECTION 12. ECOLOGICAL INFO	SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity effects				
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Version 1.2 Revision Date 02/07/2015 Print Date 05/27/2 Toxicity to fish : Note: no data available Toxicity to daphnia and other : Note: no data available aquatic invertebrates : Note: no data available Toxicity to algae : Note: no data available Elimination information (persistence and degradability) Bioaccumulation : Bioaccumulation : Note: no data available Mobility : Note: no data available Biodegradability : Note: no data available SECTION 13. DISPOSAL CONSIDERATIONS SECTION 13. DISPOSAL CONSIDERATIONS Disposal methods : : This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not posses any of the four identifying characteristics of hazardous waste (ignitability, corresivity, reactivity or toxicity). Materials of a hazardous nature that contact the product during normal use may be retaine	928002		
Toxicity to daphnia and other : Note: no data available ayuatic invertebrates : Note: no data available Toxicity to algae : Note: no data available Einination information (persistence and degradability) : Socerumulation Bioaccumulation : Note: no data available Mobility : Note: no data available Biodegradability : Note: no data available Attributional ecological information on ecology : Note: no data available Sector 13. DISPOSAL CONSIDERATIONS : Notiformation on ecology is available. Disposal methods : This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options. Sector 14. TRANSPORT INFORMATION Sector 14. TRANSPORT INFORMATION Bor Not dangerous goods	/ersion 1.2	Revision Date 02/07/2015	Print Date 05/27/2015
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	ECTION 14. TRANSPO	ORT INFORMATION	
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	TDG Not dar	gerous goods	
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IMDG	Not dangerous g	000	ds	
SECTION 15. F	REGULATORY INF	-0	RMATION	
Inventorie	es			
US. Toxic Control Ac	Substances t	:	On the inventory, or in compliance with the i	nventory
Australia. Chemical Assessme	(Notification and	:	On the inventory, or in compliance with the i	nventory
Act (CEPA	Canadian ental Protection N. Domestic es List (DSL)	:	All components of this product are on the Ca	anadian DSL.
Japan. Ka List	shin-Hou Law	:	On the inventory, or in compliance with the i	nventory
	xic Chemical w (TCCL) List	:	On the inventory, or in compliance with the i	nventory
Substance	s. The Toxic es and Hazardous ar Waste Control	:	On the inventory, or in compliance with the i	nventory
	entory of Existing Substances	:	On the inventory, or in compliance with the i	nventory
Chemicals	and. Inventory of (NZIoC), as by ERMA New	:	On the inventory, or in compliance with the i	nventory
Note		:	Zeolites are considered Statutory Mixtures for purposes, for more information, contact SafetyDataSheet@honeywell.com.	or Inventory
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National regulatory inform	ation		
SARA 302 Components		als in this material are su	
	requiremen	nts of SARA Title III, Sect	ion 302.
SARA 313 Components			chemical components with
			e threshold (De Minimis)
	reporting le	evels established by SAR	A Litie III, Section 313.
SARA 311/312 Hazards	: No SARA H	Hazards	
California Prop. 65	: This produ	et does not contain any a	homicals known to State of
Jamornia Frup. 03		o cause cancer, birth def	hemicals known to State of ects, or any other
	reproductiv		
WHMIS Classification	: Not Rated	at has a hard start of the start of	
		ct has been classified acc t and the MSDS contains	cording to the hazard criteria
	required by		
CTION 16. OTHER INFORMA	TION		
	HMIS III	NFPA	
Health hazard	: 1 : 0	1 0	
Flammability Physical Hazard	: 1	0	
Instability	:	1	
Hazard rating and rating sys			nation is intended solely for th
Further information			
The information provided in	this Safety Data	Sheet is correct to the b	est of our knowledge,
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Molsiv Adsorbents MOLSIV AB 8x12 8928002

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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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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