# Perlite MSDS

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved



ENTITY (As Used on Laber and Ust) PERLITE	(EXPANDED)	Note: Blank spaces are not permitte information is available, the sp	t. It any tam is not ace must be marke	applicable, or no d to indicate that
ction i Trade name; i	ERSOLITE (Masonry	Fill Insulation, Concr	ete Aggregai	e. Horticultu
nufacturer's Name	3 5	Emergency Telephone Number		
	roducts, Inc.	719-784-6531 Telephone Number for Information		
iress (Number, Street, City, State, and P.O. Box	r 212 Galley t - 505	719-784-6531		
		Date Prepared	,	
Florence, CO 81226		Jamary 5	2004	
ton		Signature of Preparer (optional)		,
(201 S. Robinson) P		Lori L. Sc	den	
ction ii — Hazardous Ingred	ients/kientity informatio	<b>N</b> .	Other Limite	
<ul> <li>Components (Specific Chemi</li> </ul>	cal identity; Common Name(s))		Recommende	
PERLITE (expanded)		5 mg/m	respirable	<u> </u>
Formula: Sodium F	Orthogram Alexanian	Silicate of Variable Con		
	Amorphous Mineral		WORLTION	Allis verticates
Chemical Pamily:	vmorbhone utherer	SILICATE		د مغ دومانونوده دومندال رساوات شدهاد است. <del>نسوارات ا</del> جاندان
Crystalline Stlts	a: Cristobalite			
Quartz: < 0.1%	G. C. ISCOURTICE	Z A * T S		
		_		
•			•	
The state of the s				
		*		
-				
•		· ·	•	•
ction III — Physics//Chemics	i Characteristics		,	
ling Point				-
· · · · · · · · · · · · · · · · · · ·	AAN	Specific Gravity (H <sub>2</sub> O = 1)		2,3
por Pressure (mm Hg.)		Melting Foint		
	N/A	Towns and the second	•	N/A
por Density (AIFI ~ 1)	-	Evaporation Rate		- <del> </del>
	N/A	(Sutyl Acetate = 1)		N/A
ubility in Water.				
Slight				
pearance and Odor				
pearance and Odor White Thry Ag	gregate. No odor			West Children (Course de Vance e — marcon <u>mariena</u> v
pearance and Odor White Thry Ag				
White Dry Ar  ction IV — Fire and Explosion  Point (Method Used)	on Hazard Data	Flammable Limite		
White Dry Ar ction IV — Fire and Explosion	on Hazard Data	Fishmable Limits	LEL	UEL
White Dry Age ction IV — Fire and Explosion IV — Fire and Explosion in Point (Method Used)  Non Flatinguishing Media	on Hazard Data	Fishmable Limis	LEL	UEL
white Dry Age ction IV — Fire and Explosion in Point (Method Used) Non Flainguishing Media N/A	on Hazard Data	Flammable Limis	LEL.	UEL
white Dry Age ction IV — Fire and Explosion IV — Fire and Explosion in Point (Method Used) Non Flatinguishing Media N/A point Fire Fighting Procedures	on Hazard Data	Fishmable Limis	LEL.	UEL
White Dry Age office in Value of Value	on Hazard Data	Fismmable Limits N/A	LEL	UEL.
pearance and Octor  White Dry Age ection IV — Fire and Explosion wh Point (Method Used) Non Flatinguishing Media  N/A ectal Fire Fighting Procedures	on Hazard Data	Fishmable Limits N/A	LEL	UEL
White Dry Age office and Explosion IV — Fire and Explosion in Point (Method Used)  Non Flatinguishing Media  N/A  Point Fire Fighting Procedures  None	on Hazard Data	Fisymable Limits N/A	LEL	UEL
ction IV — Fire and Explosis sh Point (Method Used) Non Flat inguishing Media N/A scial Fire Fighting Procedures None	on Hazard Date	Fisymable Limits N/A	LEL	UEL
pearance and Octor  White Dry Age colon IV — Fire and Explosion sh Point (Method Used) Non Flat inguishing Media N/A scial Fire Fighting Procedures None	on Hazard Date	Fisymable Limits N/A	LEL	UEL.
white Dry Age color White Dry Age color IV — Fire and Explosion is Point (Method Used) Non Yla tinguishing Media — N/A ecial Fire Fighting Procedures — None — None — None — No Hazards — N	on Hazard Date	Fisymmable Limits N/A	LEL	UEL
White Dry Age of the Price and Explosion IV — Fire and Explosion Point (Method Used)  Non Flatinguishing Media  N/A  scial Fire Fighting Procedures  None	on Hazard Date	Fishmable Limis N/A	LEL	UEL.

Stability	- Reactivity Da				
	Unetable		Conditions to Avoid		
	Stable				
ncompatibility	(Materials to Avoid	X on	None in designed	l use	
iazardous Dec	Hy.	draflo	ric Acid: (React	s to form toxic :	silicon tetrafloride gas)
	AT PORTON OF BYDE	ALUCIS	• .		
lazardous Polymerization	May Occur		Conditions to Avoid		
No	Will Not Occur	T <sub>x</sub>	Contact with Hyd	railoric Acid	
	– Health Hazer				
ioute(s) of Entin		helation?		Skin?	
ingitis Hazarda	(Acute and Chronic	<u>Tes</u>		No	Ingestion? Not hazardous
formal ( service bos )	(Actor and Castract	·		• , •	
Generally	regarded as	s safe	by the FDA.		
Chronic:	None Known	Fol:	low safe handling	precisions heles	
arcinogenicity:	N	rP7		ARC Monographs?	
No		No		No	OSHA Requisted? No (see below)
one and Symp	toms of Exposure	Derin	de of high amount		dust may overload lung clears:
secheniem	and make li	**************************************	ore vunerable to	or any nuisance	dust may overload lung clearar
adical Canditia	<u> </u>				
enerally Aggrav	rated by Exposure	Pre-e	xisting condition	s upper respirato	ory and lung diseases, such as.
Laster Carter S				* * · · · · · · · · · · · · · · · · · ·	-1 TOPECRED' SIGN #2'
out not 1	imited to, ?	bronch	itis, emphusema an	d asthma.	J weet Lung Gibeases. Such As.
Marhanet and	Circ. Gid Desparations	bronch	itis, emphusema an	å asthma.	
margency and Move pers	First Aid Procedure on to dust	ronch free a	itis.emphusema and rea, drink water	t asthma. to clear throat a	and blow nose.
margency and Move pers Eves: F1	First Aid Procedure on to dust ush eyes wit	free a	itis.emphusema and rea, drink water er for a minimum	t asthma. to clear throat a	and blow nose.
mergency and Move pers Eves: F1 Section VII -	First Aid Procedure on to dust ush eyes with Precautions	free a th wat	itis.emphusema and rea, drink water er for a minimum of Handling and Use	t asthma.  to clear throat a  of 15 minutes.	and blow nose,
mergency and Move pers Eves: F1 Section VII -	First Aid Procedure on to dust ush eyes with Precautions	free a th wat	itis.emphusema and rea, drink water er for a minimum of Handling and Use	t asthma.  to clear throat a  of 15 minutes.	and blow nose, DO NOT RUB.
mergency and Move pers Eves: Fl ection VII - teps to Be Take Vacuum or	First Aid Procedure on to dust ush eyes with Precautions	free a th wat for Safe is Release Avoi	itis.emphusema and rea, drink water er for a minimum of Handling and Use	t asthma.  to clear throat a  of 15 minutes.	and blow nose.
mergency and Move pers Eves: Fl Section VII - teps to Se Take Vacuum or	First Aid Procedure on to dust ush eyes with Precautions on in Case Material wet sweep.	free a th wat for Safe is Release Avoi	itis.emphusema and rea, drink water er for a minimum of Handling and Use	t asthma.  to clear throat a  of 15 minutes.	and blow nose,
mergency and Move pers Eves: F1 Section VII - Reps to Be Take Vacuum or regarding	First Aid Procedure on to dust ush eyes with eyes with eyes with executions on in Case Material wet sweep.	free a th wat for Safe is Releas Avoi	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad or Spiled d creating dust.	t asthma.  to clear throat a  of 15 minutes. 1  Maintain good ho	ond blow nose, ON NOT RUB.
mergency and Move pers Eves: F1 Section VII - teps to Be Take Vacuum or regarding Vaste Disposal Product a	First Aid Procedure on to dust: ush eyes with Precautions on in Case Material wet sweed. nulsance do Method s manufacture	free a th wat for Safe is Releas Avoi	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.	t asthma.  to clear throat a of 15 minutes. 1  Maintain good he andfill. If cont	on NOT RUB.  Dusckeeping procedures  teminated by toxic substances
mergency and Move pers Eves: F1 Section VII - teps to Se Take Vacuum or regarding Vaste Disposal! Product a	First Aid Procedure on to dust : ush eyes with the Precautions on the Case Material wet sweep.  Method of dispose of dispose r of dispose	free a th wat for Safe is Releas Avoi ust. red is	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad or Spiled d creating dust.  acceptable for 1 1 1 d be governed by	t asthma.  to clear throat a of 15 minutes. 1  Maintain good he andfill. If cont	on NOT RUB.  Dusckeeping procedures  teminated by toxic substances
mergency and Move pers Eves: F1 Section VII - Section VII	First Aid Procedure on to dust : ush eyes with the Precautions on the Case Material wet sweep.  Method of dispose of dispose r of dispose	free a th wat for Safe is Releas Avoi ust. red is	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.  acceptable for 1 ld be governed by	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  taminated by toxic substances knce.
Move pers  Eves: F1  Section VII - Reps to Se Take Vacuum or regarding  Vaste Disposal Product a  the manne recautors to Se Handle to	First Aid Procedure on to dust:  ush eyes with the Precautions on in Case Material wet sweep.  nuisance do Method of manufacture of disposite avoid creations of the process of the proces	free a th wat for Safe is Releas Avoi ust. red is al wou gand Su ting o	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad a Spiled d creating dust.  acceptable for 1 ld be governed by fingt. Repair brok	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  taminated by toxic substances knce.
Move pers Move pers Eves: F1 Section VII - teps to Se Take Vacuum or regarding  Vaste Disposal Product a the manne regarding to Se Handle to respirate	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the procedure of the procedure of the procedure of the process of	free a th wat for San is Releas Avoi ust. red is al wou gand Sto ting d	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.  acceptable for 1 ld be governed by	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  taminated by toxic substances knce.
Move pers  Eves: F1  Section VII - Reps to Se Take Vacuum or regarding  Vaste Disposal Product a  the manne recautions to Se Handle to respirato	First Aid Procedure on to dust ush eyes with Precautions on in Case Material wet sweep.  nulsance do Method s manufactur r of dispose e Taken in Handling avoid crea	free a th wat for San is Releas Avoi ust. red is al wou gand Sto ting d	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad a Spiled d creating dust.  acceptable for 1 ld be governed by fingt. Repair brok	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  taminated by toxic substances knce.
Move pers  Eves: F1  Section VII - Reps to Se Take Vacuum or regarding  Vaste Disposal Product a  the manne recautions to Se Handle to respirato	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the procedure of the procedure of the procedure of the process of	free a th wat for San is Releas Avoi ust.  red is al wou gand Sto ting d	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad a Spiled d creating dust.  acceptable for 1 ld be governed by fingt. Repair brok	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  teminated by toxic substances knce.
Move pers  Eves: F1  Section VII -  teps to Se Take Vacuum or  regarding  Vaste Disposal !  Product a  the manne recautions to Se Handle to  respirate  The Precaution  Normally	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the procedure of the procedure of the procedure of the process of	free a th wat for Safe is Releas Avoi ust.  red is al wou g and Sto ting d	itis.emphusema and rea, drink water er for a minimum of Handling and Use ad a Spiled d creating dust.  acceptable for 1 ld be governed by fingt. Repair brok	to clear throat a of 15 minutes. I	on NOT RUB.  Dusckeeping procedures  teminated by toxic substances knce.
mergency and Move pers Move pers Eves: F1 Section VII - teps to Be Take Vacuum or regarding for the manne recautions to Be Handle to respirate ther Precaution Normally section VIII -	First Aid Procedure on to dust:  ush eyes with the Precautions on in Case Material wet sweep.  Inuisance do Method of Method of disposition avoid creations for protections or required to the procedure of the pr	free a th wat for Safe is Releas Avoi ust.  red is al wou g and Sto ting of	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.  acceptable for led be governed by this to the specified the for specified the s	to clear throat a of 15 minutes. It Maintain good he andfill. If contain the toxic substates here bags, we reconveshed values.	on NoT RUB.  Dusckeeping procedures  teminated by toxic substances  ance.  mend the use of NIOSH approved
mergency and Move pers Move pers Eves: F1  teps to Se Take Vacuum or regarding or regarding or regarding the manner recautions to Se Handle to respirate the recaution Normally ection VIII espiratory Protection	First Aid Procedure on to dust :  ush eyes with the procedure on to dust :  ush eyes with the procedure of the procedure of the post of the procedure of the pr	free a th wat for Safe is Releas Avoi ust.  red is al wou g and Sto ting of	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.  acceptable for led be governed by this to the specified the for specified the s	to clear throat sof 15 minutes. It Maintain good he andfill. If contain the toxic substitute bags, we reconstructed values.	and blow nose,  ON NOT RUB.  Dusekeeping procedures  Eaminated by toxic substances  Emend the use of NIOSE approved  Section for specified threshold
mergency and Move pers Move pers Eves: F1 lection VII - less to Be Take Vacuum or regarding  regarding  Product a  the manner  recautions to Be  Handle to  respirate  ther Precaution  Normally  lection VIII - less piratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  spiratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  spiratory Prose  we recommended to  spiratory Prose  sp	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the use the provide addition (Specify Type mend the use the provide addition of the use the provide addition of the use the provide addition of the provide addition to the use the provide additional to the use the u	free a th wat for Safe is Release Avoi ust.  red is al wou gand Sto ting of cection	itis.emphusema and rea, drink water er for a minimum of Handling and Use and or Spiled d creating dust.  acceptable for led be governed by this to the specified the for specified the s	to clear throat a of 15 minutes. It Maintain good he andfill. If contain the toxic substant and bags, we recontrolly alues.	musekeeping procedures  caminated by toxic substances  mend the use of NIOSH approved  caction for specified threshold  not required.
mergency and Move pers Move pers 1	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the sweep.  Method a manufacture of disposers for protection for protection for the use the provide adec mechanical (General Exhaust Provide adec Mechanical (General Control Meanus)	free a th wat for Safe is Releas Avoi  ust.  red is al wou gend Sto ting d ection  sures of N	itis.emphusema and rea, drink water er for a minimum of Handling and Use acceptable for lad be governed by the for specified the for specified the for specified the control of the contro	to clear throat a of 15 minutes. It Maintain good he andfill. If contain the toxic substant and bags, we recontrolly alues.	musekeeping procedures  caminated by toxic substances  mend the use of NIOSH approved  caction for specified threshold  not required.
mergency and Move pers Move pers Eves: F1 lection VII - less to Be Take Vacuum or regarding  regarding  Product a  the manner  recautions to Be  Handle to  respirate  ther Precaution  Normally  lection VIII - less piratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  spiratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  we recommended to  spiratory Prose  spiratory Prose  we recommended to  spiratory Prose  sp	First Aid Procedure on to dust ush eyes with ush eyes with ush eyes with ush eyes with ush eyes Material wet sweep.  Method a manufacture of dispose Taken in Handling avoid creators for protest in a required to require of the use total Exhaust Provide adection of dust and or dust	free a th wat for Safe is Release Avoi ust.  red is al wou gand Sto ting d ection  sures coll coll	itis.emphusema and rea, drink water er for a minimum of Handling and Use ed or Spiled d creating dust.  acceptable for led be governed by thing to Repair broke to for specified the company of the specified th	Maintain good he andfill. If contain the toxic substance bags, we reconstructed values.  pirators for proton. Normally not maintain good he maintain good he andfill. If contains the toxic substance bags, we reconstructed values.	end blow nose,  ON NOT RUB.  Dusckeeping procedures  Esminated by toxic substances  ance.  Emmend the use of NIOSH approved  section for specified threshold  tot required.  Stood housekeeping procedures.
margency and Move pers Move pers Serves: F1 ection VII - sept to Serve Take Vacuum or regarding aste Disposal I Product a the manne recautions to Be Handle to respirate the Precaution Normally ection VIII - sepiratory Protective Gloves of the Product and Serves Serves Gloves of the Precommendation	First Aid Procedure on to dust:  ush eyes with the procedure on to dust:  ush eyes with the procedure of the sweep.  Method a manufacture of dispose Taken in Handling avoid creators for protection / Specify Type mend the use total Exhaust Provide adection and or dust	free a th wat for Safe is Release Avoi ust.  red is al wou g and Sto ting d ection  sures of N ouate t coll ot req	itis.emphusema and rea, drink water er for a minimum of Handling and Use ed or Spiled d creating dust.  acceptable for led be governed by thing to Repair broke to for specified the company of the specified th	to clear throat a of 15 minutes. It Maintain good he andfill. If contain the toxic substant and bags, we recontrolly alues.	end blow nose,  ON NOT RUB.  Dusckeeping procedures  Esminated by toxic substances  Exace.  Emmend the use of NIOSH approved  Esction for specified threshold  Limit value  Good housekeeping procedures.

Federal and State regulations sometimes change and differ. To stay current, consult your State OSHA Authorities,. While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Persolite Products, Inc., makes no warranty with respect thereto, and disclaims all liability from reliance thereon.

# Insulfoam LLC

# Material Data Safety Sheet

I. PRODUCT INFORMATION Effective date 6/20/07

Product: Insulfoam Molded EPS Products, R-TECH

Molded Expanded Polystyrene (MEPS) Synonyms:

**Product Grades:** Type I, VIII, II, IX, XIV and XV (modified)

Chemical Family: Polystyrene Thermoplastic

CAS Registry No. : 9003536

> CAS Name: Benzene, Ethenyl, Homopolymer

Formula:  $(C_8 H_8) n$ 

Listed TSCA Inventory Status:

Hazard Rating

0 = Minimal3 = Serious1 = Slight4 = Severe

2 = Moderate

Health 0 2 Fire 0

Reactivity

Contact:

Insulfoam LLC

1019 Pacific Avenue, Suite 1501 Tacoma, Washington 98402-4483 (253) 572-5111 FAX (253) 383-7100

### II. INGREDIENTS

Hazardous Components: CAS Registry No..: Approx. Weight Percentage:

Pentane <2% 109660 Bromine Flame Retardant 3194-55-6 <1% Polymeric Film 1-3%

Non-Hazardous Components: CAS Registry No.: Approx. Weight Percentage:

9003536 Polystyrene >92%

### III. PHYSICAL DATA

Rigid, cellular foam blocks, Form: Specific Gravity (Water = 1):

boards and shapes

Volatile by Volume: <1.8% (Pentane & Water) N/A

White Vapor Pressure: Color: Very slight pentane Vapor Density (Air = 1): Odor: N/A Evaporation Rate: None **Boiling Point:** 

Melting Point: N/A (Softening begins @ 160° F) Solubility in Water: Insoluble

0.6 pcf to 3.0 pcf Density:

### IV. FIRE & EXPLOSION DATA

Flash Pt. and Method Used: 610° F min. (ASTM D1929)

Use approved self-contained breathing apparatus respirator Special Fire-Fighting Instructions:

and personal protective clothing (turn out gear).

Water fog, carbon dioxide, dry chemical, foam Extinguishing Media:

Autoignition Temperature : 850° F min.

If exposed to fire, high heat will develop and may produce dense, black Unusual Fire & Explosion Hazards:

smoke. Dust generated by fabrication (ie. sanding, sawing, etc.) will

increase fire hazard and should be handled accordingly.

### V. REACTIVITY DATA

Stability (Conditions to Avoid): Stable. Avoid fire and high temperatures.

Will dissolve in most organic solvents and some insecticides, aldehydes Incompatibility (Materials to Avoid):

and amines.

CO, CO<sub>2</sub>, H<sub>2</sub>O and Hydrogen Bromides Hazardous Decomposition:

Hazardous Polymerization: None.

### <u>Principal Health Hazards</u> and Signs & Symptoms of Exposure

Eye Contact: Dust or particles may cause mechan-

ical eye irritation and/or injury.

**Inhalation:** Dust from mechanical fabrication may

cause upper respiratory irritation. Fumes from hot-wire cutting can also cause upper

respiratory irritation.

**Skin Contact:** None. May produce slight skin irritation

in a few individuals.

**Ingestion:** Biological inert. May act as an obstruction

if swallowed.

Carcinogenicity: None.

Safety Precautions: Use positive ventilation. Mechanical fab-

rication, sanding, etc. requires the use of safety glasses or goggles and dust mask.

### First Aid

**Eyes:** Rinse with clean water. Remove

foreign particles with clean, lint-free cloth. Obtain medical treatment if pain, blinking, tears or redness persists.

**Inhalation:** If overcome by exposure, remove to

fresh air. Provide oxygen and artificial respiration. Get medical attention.

**Skin:** Not expected to present skin hazard.

Wash exposed areas with mild soap and water. Consult physician if irrita-

tion persists.

**Ingestion:** Not expected to present significant

ingestion hazard. Consult physician if

swallowed.

### VII. EMPLOYEE PROTECTION

### **Personal Protection Equipment**

**Respiratory Protection:** Use approved dust mask when sawing or sanding.

**Skin Protection:** Wear gloves and/or sleeves if sensitivity is noted.

*Eye Protection*: Use approved safety glasses/goggles when sawing or sanding.

General Control Measures: Use positive ventilation. Wear safety glasses/goggles and dust mask if mechanical

fabrication is to take place.

### VIII. SPILL OR LEAK PROCEDURE

Spill, Leak or Release Procedures: Normal good housekeeping should be observed. Material can be swept or picked

up and placed into a suitable container for disposal.

Reportable Quantity: None.

**Disposal Method:** Recycle, incinerate (WTE) or land-fill per local and state regulations.

### IX. SPECIAL PRECAUTIONS

**Storage and Handling:** Expanded Polystyrene is considered to be combustible, and adequate

protection from sources of ignition should be taken.

Transportation Requirements: Not a D.O.T. Hazardous Material.

The information contained herein is provided as a general reference only. Insulfoam believes the data set forth herein to be accurate and given in good faith. Insulfoam makes no guarantee or warranty and does not assume any liability with respect to the accuracy or completion of such information or of the product results in any specific instance, and hereby expressly disclaims any implied warranties of merchantability or fitness for a particular purpose, or any other warranties or representations whatsoever, expressed or implied.

MSDS 085

INSULFOAM LLC 1019 Pacific Avenue, Suite 1501 Tacoma, Washington 98402-4483

Emergency Telephone Number CHEMTREC 1-800-424-9300 (This number is available days, nights, weekends & holidays.)

INSULFOAM LLC TECHINCAL CENTER 17001 Fish Point Road, Suite 101 Prior Lake, Minnesota 55372 (800) 469-8870 REPORT NUMBER: 703

UNIVAR USA INC.

1SOS NO: 39475

MATERIAL SAFETY DATA SHEET

MAINFRAME UPLOAD DATE: 01/19/06

PAGE: 001

VERSION: 003

'RODUCT: WITCONATE AOK

ORDER NO: 235633 PROD NO : 383810

CONDECK CORPORATION 3230 MATTHEW AVE NE

ALBUQUERQUE ,NM 87107

NIVAR USA INC.

7425 NE UNION HILL RD , REDMOND

(425)889-3400 , WA 98052

----- EMERGENCY ASSISTANCE

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMITREC (800)424-9300

\*

PRODUCT IDENTIFICATION

RODUCT NAME:

WITCONATE ADK

305#:

39475

ATE ISSUED:

06/06/2002

JPERSEDES:

01/03/2001

SSUED BY:

008081

This MSDS has been reviewed on 1/19/2006, and is

current as of the DATE ISSUED above.

MATERIAL SAFETY DATA SHEET

ECTION 1. PRODUCT AND COMPANY IDENTIFICATION

oduct name:

WITCONATE ACK

REPORT NUMBER: 703 1905 NO: 39475

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

MAINFRAME UPLOAD DATE: 01/19/06

PAGE: 002

VERSION: 003

PRODUCT: WITCONATE AUK

ORDER NO: 235633 PROD\_NO : 383810

hemical name:

Sodium alpha olefin sulfonate

lupplier:

Akzo Nobel Industrial Specialties, Inc.

300 South Riverside Plaza Chicago, IL 60606-6697, USA

mergency telephone number:

Akzo Nobel Emergency Response

(24 hours) 914-693-6946

CHEMTREC (24 hours) 800-424-9300

or MSDS, Product Safety, or regulatory

nquiries, call: Mike Curl 713-434-4421

### ECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

OMPONENT

CAS#

CONCENTRATION

odium (C14-16) alpha olefin sulfonate

68439-57-6

94.0 %

odium sulfate

7757-82-6

6.0 X

### ECTION 3. HAZARDS IDENTIFICATION

### PPEARANCE

hysical state

Flakes

olor

Cream white

dor

Bland

### MERGENCY OVERVIEW

### ARNING!

CAUSES EYE IRRITATION.

AY BE HARMFUL IF SWALLOWED.

### OTENTIAL HEALTH EFFECTS

:wallowing

cute effects

oderately toxic.

### kin absorption

cute effects

farmful effects are not expected from short periods of contact.

∢EPORT NUMBER: 703

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

1905 NO: 39475 M 1AINFRAME UPLOAD DATE: 01/19/06 PAGE: 003

VERSION: 003

PRODUCT: WITCONATE ADK

ORDER NO: 235633 PROD NO: 383810

inhalation

ocute effects

inort-term harmful health effects are not expected from vapor generated at ambient temperature.

ikin contact

cute effects

lauses slight to moderate irritation.

lye contact

cute effects

lauses moderate to severe irritation.

'OTENTIAL ENVIRONMENTAL EFFECTS

This product is expected to be moderately toxic to aquatic organisms.

### SECTION 4. FIRST AID MEASURES

Swallowing

To not induce vomiting. Obtain medical attention immediately.

ikin

immediately flush skin thoroughly with water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention if irritation persists.

Inhalation

Remove to fresh air. Give artificial respiration if not breathing.

iye contact

(mmediately flush eyes with water and continue washing for at least 15 minutes.

BECTION 5. FIRE-FIGHTING MEASURES

Flash point: > 94 C (> 200 F)

Special protective equipment for firefighters
Use self-contained breathing apparatus when fighting fires in enclosed areas.

Extinguishing media

EPORT NUMBER: 703

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

SDS NO: 39475

AINFRAME UPLOAD DATE: 01/19/06

VERSION: 003

PAGE: 004

RODUCT: WITCONATE AOK

ORDER NO: 235633 PROD NO: 383810

uitable: Extinguish with:

- water fog
- dry chemical
- 002
- alcohol resistant foam
- water spray

nsuitable: None.

### ECTION 6. ACCIDENTAL RELEASE MEASURES

ersonal precautions:

ear suitable protective equipment.

nvironmental precautions

void runoff to sewers or waterways. Product is dispersible in water.

ay be harmful to aquatic life.

ethods for cleaning up

weep up and collect in a suitable container for disposal.

esidue:

lush with large amounts of water.

bserve government regulations.

### ECTION 7. HANDLING AND STORAGE

### ANDLING

andling precautions o not get in eyes, on skin, on clothing. Wear recommended personal rotection equipment.

### TORAGE

torage requirements

tore and use with adequate ventilation. Store at ambient temperature,

### ECTION 8, EXPOSURE CONTROLS / PERSONAL PROTECTION

### ERSONAL PROTECTION

espiratory protection

f personnel exposure exceeds the exposure limits, select appropriate

EPORT NUMBER: 703 'SOS NO: 39475

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

AINFRAME UPLOAD DATE: 01/19/06

PAGE: 005

VERSION: 003

RODUCT: WITCONATE ACK

ORDER NO: 235633 PROD NO: 383810

rotective equipment in accordance with NIOSH recommendations.

and protection / protective gloves esistant gloves

ye protection afety glasses.

ndustrial hygiene measures emove contaminated clothing and clean it.

NGINEERING CONTROLS

entilation

eneral (mechanical) room ventilation is expected to be satisfactory or normal handling.

XPOSURE LIMITS

o exposure limits have been established

ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PPEARANCE

hysical state:

olor:

Flakes Cream white

dor

Bland-

THER PROPERTIES

oiling Point:

No data available, No data available.

elting Point:

7 - 10

apor pressure:

Negligible

apor density (air=1): Non Volatile

olubility in water:

Soluble

lash point:

> 94 C (> 200 F)

Method: Pensky-Martens closed cup ASTM D 93

ercent volatiles: () %(m)

ECTION 10. STABILITY AND REACTIVITY

tability: Stable.

tability - Conditions to avoid table under normal conditions.

EPORT NUMBER: 703

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

SDS NO: 39475 AINFRAME UPLOAD DATE: 01/19/06 PAGE: 006

VERSION: 003

RODUCT: WITCONATE ADK

ORDER NO: 235633 PROD NO : 383810

ncompatible materials trong exidizing agents.

azardous combustion products arbon monoxide. arbon dioxide. xides of sulfur.

azardous polymerization: Will not occur.

### ECTION 11. TOXICOLOGICAL INFORMATION

**UALLOWING** 

est results

cute toxicity: LD50-Rats ((Males)

Result: 2,161 mg/kg

cute toxicity: LOSO - Rats(Females)

Result: 1,895 mg/kg

KIN ABSORPTION

est results

cute Toxicity: LB50 - Rabbit

Result: > 2,020 mg/kg

ENSITIZATION

est results: Remark: Non-sensitizing

ARCINOGENICITY

ssessment

our carcinogenicity studies evaluated AOS and that AOS is not arcinogenic in rodents when administered either percutaneously r orally.

ECTION 12. ECOLOGICAL INFORMATION

his product is expected to be moderately toxic to aquatic organisms.

ection 13. DISPOSAL CONSIDERATIONS

eneral:

t is our opinion this product is not a RCRA hazardous waste. It is the

EPORT NUMBER: 703

9BS NO: 39475

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

AINFRAME UPLOAD DATE: 01/19/06

PAGE: 007

VERSION: 003

RODUCT: WITCONATE AOK

ORDER NO: 235633 PROD NO: 383810

enerator's responsibility to make their own determination as to the RCRA tatus of waste they generate. We have not performed a Toxicity haracteristic Leachate Procedure (TCLP) on this product. Incinerate n a furnace where permitted under appropriate Federal, State, and local egulations.

on-cleaned packages

ispose of washing solution in the same way as product.

### ECTION 14. TRANSPORT INFORMATION

OT Classification

mis product is not regulated by DOT.

reight description road: CLEANING, SCOURING & WASHING COMPOUND,

LIQUID OR POWDER

MDG Classification his product is not regulated by IMDG.

CAO Classification his product is not regulated by ICAO.

### ECTION 15. REGULATORY INFORMATION

omprehensive Environmental Response Compensation and Liability Act of 980(CERCLA) requires notification of the National Response Center of elease of quantities of hazardous substances equal to or greater than he reportable quantities (RQ's) in 40CFR302.4. omponents present in this product at a level which could require eporting under the statute are:

uperfund Amendments and Reauthorization Act of 1986 (SARA) Title III equires emergency planning based on Threshold Planning Quantities TPQ's) and release reporting based on Reportable Quantities (RQ's) n 40CFR355 (used for SARA 302 and 304). omponents present in this product at a level which could require eporting under the statute are; one.

uperfund Amendments and Reauthorization Act of 1986 (SARA) Title III equires submission of annual reports of release of toxic chemicals that ppear in 40CFR372 (for SARA 313). This information must be included in ISDS's that are copied and distributed for this material.

EPORT NUMBER: 703 4SDS NO: 39475

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

MAINFRAME UPLOAD DATE: 01/19/06

VERSION: 003

PAGE: 008

'RODUCT: WITCONATE AOK

ORDER NO: 235633 PROD NO : 383810

omponents present in this product at a level which could require eporting under the statute are: one.

ennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when resent in products.

omponents present in this product at a level which could require eporting under the statute are: one.

ew Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

hemical name

CAS#

New Jersey TS

umber

adium sulfate

7757-82-6

odium (C14-16) alpha olefin sulfonate

68439-57-6

ECTION 16. OTHER INFORMATION

ECOMMENDED USES AND RESTRICTIONS

lease consult the product and/or application information bulletins or this product.

MIS RATING

Health: 2 Flammability: 1 Reactivity: 0 PPI: -

EGEND

TP

Standard temperature and pressure

/₩

Weight/Weight

(HMIS) (HMIS) Minimal hazard Slight hazard

(HMIS)

Moderate hazard

(HMIS)

Serious hazard

(HMIS)

Severe hazard

(HMIS)

Personal protection rating to be supplied by user depending

on use conditions

EPORT NUMBER: 703 :SOS NO: 39475

UNIVAR USA INC.

MATERIAL SAFETY DATA SHEET

AINFRAME UPLOAD DATE: 01/19/06

PAGE: 009

VERSION: 003

RODUCT: WITCONATE ACK

ONSEQUENTIAL DAMGAGES. \*\*

ORDER NO: 235433

PROD NO: 383810 ----- FOR ADDITIONAL INFORMATION -----CONTACT: MSDS COORDINATOR UNIVAR USA INC. DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400 07/03/06 06:06 PRODUCT: 383810 CUST NO: 425230 ORDER NO: 235633 Lister desired rates rate trads from two page and that both costs does not made that the cost of the c \*\*\*\*\*\* UNIVAR USA INC("UNIVAR"), EXPRESSLY DISCLAIMS LL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A ARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED EREIN, AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR

DO NOT USE INGREDIENT INFORMATION AND/OR PERCENTAGES IN THIS MSDS AS A RODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT PECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM OUR LOCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE ANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS ELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR UFFICIENCY, CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS RE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO ETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY SSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM HE PUBLICATION OR USE OF, OR RELIANCE UPON , INFORMATION CONTAINED HEREIN. HIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT ELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER ROCESS.

Product Name: Zell-Crete Fiber

File: MSDS ZCFiber

Page 1 of 3

### MATERIAL SAFETY DATA SHEET Revised 11/13/06 EMG/ML

# Product Name: Zell-Crete Fiber

A 1/2 inch, 15-denier polyester filament, specifically designed to be used in Elastizell cellular concrete.

# SECTION I - LOCATION

Manufacturer's Name and Address:

Superior Fiber Products 9391 Mentor Avenue, Suite 289 Mentor, OH 44060 tel: (800) 243-0789

Distributor's Name and Address:

### Research Center:

Elastizell Corporation of America 7900 Second Street Dexter, MI 48130 tel: (734) 426-6076 fax: (734) 426-6078

### Office:

Elastizell Corporation of America 267 Collingwood - P. O. Box 1462 Ann Arbor, MI 48106 tel: (734) 761-6900 fax: (734) 761-8016

Emergency Telephone Number: Superior Fiber Products @ (800) 243-0789

# SECTION II - INGREDIENTS

Poiyethylene terephthalate polymer (PET) Surface finishes (surfactants) (CAS # 25038-59-9) < 2%

There are no known physical or health hazards associated with this product. In skin tests on human subjects, the fibers produced no irritation or sensitization.

Thermoplastic polyester (PET) products are not considered hazardous by criteria of the OSHA Hazardous Communication Standard (29 CFR 1910-1200).

Product Name: Zell-Crete Fiber

File: MSDS ZCFiber

Page 2 of 3

# SECTION III - CHEMICAL & PHYSICAL PROPERTIES

Chemical Name:

Polyethylene terephthalate polymer (PET)

Specific Gravity:

1.34

Tensile Strength:

130-160 ksi

Initial Modulus:

50-60 grams/denier

Ignition Point:

Over 1100°F

Melting Point:

Over 495°F

Ductility Range:

-100°F through +440°F

Weak Acid Resistance: Weak Alkali Resistance: High High

Thermal Conductivity: Electrical Conductivity:

Low Low

Elongation / Tenacity

5.5 grams/denier

Young's Modulus:

2500 ksi

# SECTION IV - FIRE AND EXPLOSION HAZARD

Extinguishing Media:

Water, fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Information:

Combustion products are carbon dioxide and carbon monoxide. Combustion products will depend on conditions of combustion. Wear self-

contained breathing apparatus.

Umisual Fire and Explosion Hazards:

Decomposition products generated from molten

product may be subject to auto ignition.

## SECTION V - HEALTH HAZARD DATA

Health Hazards (Acute and Chronic):

None likely

Carcinogenicity:

None likely

Signs and Symptoms of Exposure:

None likely

Emergency and First Aid Procedures:

Not required

### SECTION VI - REACTIVITY DATA

Stability:

Stable

Hazardous Polymerization:

Will not occur

Incompatibility (Materials to avoid):

Oxidizing materials

Hazardous Decomposition or by-products:

Carbon dioxide, carbon monoxide

# SECTION VII - SPILL OR LEAK PROCEDURES

Release or Spill:

Collect and contain for disposal.

Waste Disposal Method:

Incineration or landfill. Observe all federal, state,

and local disposal laws.

These products are not classified as hazardous wastes under the Resource Conservation And Recovery Act and, unless prohibited by state or local regulations, can be disposed of in municipal landfills or incinerated.

Product Name: Zell-Crete Fiber

File: MSDS ZCFiber

Page 3 of 3

# SECTION VIII - SPECIAL PROTECTION INFORMATION

Avoid eye contact. Safety glasses with side shields recommended.

Use cloth gloves in case of continuous contact.

Full length clothing suggested.

Normal hygiene measures such as washing hands recommended after use.

Adequate ventilation is recommended to maintain finish mist levels below 3mg/m³ per 8 hour

TWA.

## **SECTION IX - TRANSPORTATION DATA**

Department of Transportation:

U.S. DOT Shipping Name:

U.S. DOT Hazard Class:

NMFC Number:

Label(s) Required: Reportable Quantity:

Freight Classification:

Special Transportation Notes:

Not regulated

PET fiber for concrete

Not hazardous

106420 sub 8

None

N/A

Rate class 50

None

Signature:

Ned Glysson

Title:

Director of Research and Operations

Supercedes: 05/14/02

Revision Date: 11/13/06

The statements, technical information and recommendations contained herein are reliable, but they are given without warranty guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of their use.