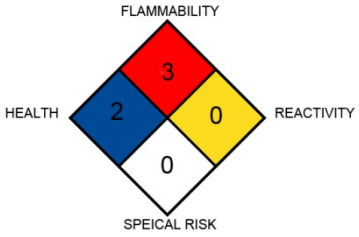
Energy Seal Coatings
www.energy-seal.com



0=Minimal, 1=Slight, 2= Moderate, 3=Serious, 4=Sever

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACU-FLEX:HYDRO
Product Composition/ Use: Single component thermoplastic waterproofing, reflective roof coating.
CAS Number: Mixture
Manufacturer Name: Advanced Coating Systems, Inc.
Street Address: 2230 Towne Lake Pkwy, Bldg.1000 Ste.150
City: Woodstock **State:** GA **Zip Code**: 30189 **Phone**: (678)445-0040
Emergency Telephone: INFOTRAC 24hrs, (800)535-5053

SECTION 2- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE : Viscous liquid
IMMEDIATE CONCERNS : Use as directed – For Industrial Use Only

POTENTIAL HEALTH EFFECTS

EYES : May cause eye irritation.
SKIN : May cause skin irritation.
SKIN ABSORPTION : None.
INGESTION : Harmful if swallowed.
INHALATION : Harmful if inhaled
CHRONIC : None.
CARCINOGENICITY : Category 1B. May cause cancer.
MUTAGENICITY : Category 1B.

REPRODUCTIVE TOXITY

REPRODUCTIVE EFFECTS : None
TERATOGENIC EFFECTS : None
IRRITANCY: None

GHS CLASSIFICATION :

Eye irritation: Category 2
Carcinogen: Category 1

PICTOGRAMS

SIGNAL WORD: DANGER

PRECAUTIONAL STATEMENTS:
Obtain special instructions before use

CONTINUED

Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge .

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
Skin
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep cool
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
42 % of the mixture consists of ingredient(s) of unknown toxicity
Other information
May be harmful in contact with skin
Toxic to aquatic life with long lasting effects
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION
Interactions with Other Chemicals
No information available.

SECTION 3- COMPOSITION AND INFORMATION ON INGREDIENTS*

Chemical Name	CAS No	Weight - %	Trade Secret
Solvent naphtha (petroleum, light aliphatic	64742-89-8	30 – 60	*
Zinc oxide	1314-13-2	7 – 13	*
Titanium dioxide	13463-67-7	7 – 13	*
Xylene, mixed isomers	1330-20-7	5 – 10	*
Oleic acid	112-80-1	1 – 5	*
Ethylbenzene	100-41-4	1 – 5	*
3(2H)- Isothiazolone, 2-octyl-	26531-20-1	0.1 – 1	*

*** The exact percentage (concentration) of composition has been withheld as a trade secret**

SECTION 4- FIRST-AID MEASURES

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Call a physician or poison control center immediately.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

NOTES TO PHYSICIAN:

May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5- FIRE AND EXPLOSION HAZARDS

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO_2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Uniform Fire Code

Sensitizer: Liquid

Flammable Liquid: I-B

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact

No.

Sensitivity to Static Discharge

Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. See section 8 for more information. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other Information

Refer to protective measures listed in Sections 7 and 8. Ventilate the area.

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material.

SECTION 7- HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or . Do not eat, drink or smoke with using product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Avoid breathing vapors or mist. Keep away from heat/spark/open flames/ hot surfaces. NO SMOKING. Use grounded and bonded connections with transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equippe4d with sprinklers. Use according to product label instructions.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in dry, cool and well-ventilated place. Store locked up. Keep out to the reach of children. Protect from moisture. Store away from other materials. Keep away from heat, sparks, open flame, hot surface or other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations, Store in accordance with local regulations.

I**ncompatible Products** Store acids. Strong oxidizing agents. Strong bases.

SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Xylene, mixed isomers	STEL: 150 ppm		TWA: 100 ppm
1330-20-7	TWA: 100 ppm		TWA: 435 mg/m3
			(vacated) TWA: 100 ppm
			(vacated) TWA: 435 mg/m3
			(vacated) STEL: 150 ppm
			(vacated) STEL: 655 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

CONTINUED

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)
Appropriate engineering controls	
Engineering Measures	Showers Eyeswash stations Ventilation
Individual protection measures, such as personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Viscous liquid		
Appearance	Viscous	**Odor**	No information
Color	No information available	**Odor Threshold**	No information

Property	**Values**	**Remarks Method**
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	138 °C / 281-284 °F	None known
Flash Point Evaporation	20 °C / 68 °F	None known
Rate Flammability (solid,	No data available	None known
gas) Flammability Limit in	No data available	None known
Air		
Upper flammability limit	7%	
Lower flammability limit	1%	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	0.9	None known
Water Solubility	Reacts with water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known

CONTINUED

Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	2000 – 3000 mPa-s	None known
Explosive properties	No data available No	
Oxidizing properties	data available less	
VOC Content (%)	than 500 g/liter	

SECTION 10- STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong acids. Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products
Carbon oxides.

SECTION 11- TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). May cause redness, itching, and pain. May cause irritation.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Repeated exposure may cause skin dryness or cracking.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

CONTINUED

Component Information

Chemical Name	Oral	Dermal LD50	Inhalation LC50
Solvent naphtha (petroleum), light aliphatic 64742-89-8	-	= 3000 mg/kg (Rabbit)	-
Zinc oxide 1314-13-2	> 5000 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Xylene, mixed isomers 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit) > 1700	= 29.08 mg/L (Rat) 4 h = 5000
Oleic acid 112-80-1	= 25 g/kg (Rat)	-	-
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	=	=
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	= 550 mg/kg (Rat)	= 690 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Asthma-like and/ or skin allergy-like symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization in susceptible persons. May cause sensitization by skin contact.

Mutagenic Effects There is no data for this product. Contains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7		Group 2B		X
Xylene, mixed isomers 1330-20-7		Group 3		
Ethylbenzene 100-41-4		Group 2B		

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied. supplied. Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Aspiration may cause pulmonary edema and pneumonitis. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B by inhalation

CONTINUED

Target Organ Effects	Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI).
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
9,836.00 mg/kg
ATEmix (dermal)
2,315.00 mg/kg (ATE)
ATEmix (inhalation-dust/mist)
8.38 mg/l
ATEmix (inhalation-vapor)
68.00 ATEmix

SECTION 12- ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Solvent naphtha (petroleum), light aliphatic 64742-89-8	72h EC50: = 4700 mg/L (Pseudokirchneriella subcapitata)			
Xylene, mixed isomers 1330-20-7		96h LC50: = 13.4 mg/L (Pimephales promelas) 96h LC50: = 19 mg/L (Lepomis macrochirus) 96h LC50: 13.1 - 16.5 mg/L (Lepomis macrochirus) 96h LC50: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) 96h LC50: 2.661 - 4.093 mg/L (Oncorhynchus mykiss) 96h LC50: = 780 mg/L (Cyprinus carpio) 96h LC50: > 780 mg/L (Cyprinus carpio) 96h LC50: 30.26 - 40.75 mg/L (Poecilia reticulata) 96h LC50: 23.53 - 29.97 mg/L (Pimephales promelas) 96h LC50: 7.711 - 9.591 mg/L (Lepomis macrochirus)		48h EC50: = 3.82 mg/L 48h LC50: = 0.6 mg/L
Oleic acid 112-80-1		96h LC50: = 205 mg/L (Pimephales promelas)		
Ethylbenzene 100-41-4	72h EC50: = 4.6 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 1.7 - 7.6 mg/L (Pseudokirchneriella subcapitata) 96h EC50: > 438 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 4.2 mg/L (Oncorhynchus mykiss) 96h LC50: 9.1 - 15.6 mg/L (Pimephales promelas) 96h LC50: = 32 mg/L (Lepomis macrochirus) 96h LC50: 7.55 - 11 mg/L (Pimephales promelas) 96h LC50: 11.0 - 18.0 mg/L (Oncorhynchus mykiss) 96h LC50: = 9.6 mg/L (Poecilia reticulata)		48h EC50: 1.8 - 2.4 mg/L

CONINUED

Persistence and Degradability
No information available.
Bioaccumulation

Chemical Name	Log Pow
Xylene, mixed isomers 1330-20-7	3.15

Other adverse effects
No information available.

SECTION 13- DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001 U239

California Hazardous Waste Codes 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Zinc oxide 1314-13-2	Toxic
Xylene, mixed isomers 1330-20-7	Toxic Ignitable

SECTION 14- TRANSPORT INFORMATION

DOT

UN-No. UN1263
Proper Shipping Name PAINT
Hazard Class 3
Packing Group III
Description UN1263, PAINT, 3, III

TDG

UN-No. UN1263
Proper Shipping Name PAINT
Hazard Class 3
Packing Group III
Description UN1263, PAINT, 3, III

MEX

UN-No. UN1263
Proper Shipping Name PAINT
Hazard Class 3
Packing Group III
Description UN1263, PAINT, 3, III

ICAO

UN-No. UN1263
Proper Shipping Name PAINT

CONTINUED

Hazard Class	3
Packing Group	III
Description	UN1263, PAINT, 3, III

IATA

UN-No.	UN1263
Proper Shipping Name	PAINT
Hazard Class	3
Packing Group	III
Description	UN1263, PAINT, 3, III

IMDG/IMO

UN-No.	UN1263
Proper Shipping Name	PAINT
Hazard Class	3
Packing Group	III
EmS-No.	F-E, S-E
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Description	UN1263, PAINT, 3, III, (20°C C.C.)

RID

UN-No.	UN1263
Proper Shipping Name	PAINT
Hazard Class	3
Packing Group	III
Classification code	F1
Description	UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III
ADR/RID-Labels	3

ADR

UN-No.	UN1263
Proper Shipping Name	PAINT
Hazard Class	3
Packing Group	III
Classification code	F1
Tunnel restriction code	(D/E)
Description	UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III, (D/E)

SECTION 15- REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
IECSC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CONTINUED

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc oxide - 1314-13-2	1314-13-2	7 - 13	1.0
Xylene, mixed isomers - 1330-20-7	1330-20-7	5 - 10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard

Yes **Chronic Health Hazard**

Yes **Fire Hazard**

Yes **Sudden release of pressure hazard**

No **Reactive Hazard**

No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA - Hazardous Substances
Zinc oxide 1314-13-2		X		
Xylene, mixed isomers 1330-20-7	100 lb			X
Ethylbenzene 100-41-4				X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Xylene, mixed isomers 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen
Ethyl alcohol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Zinc oxide 1314-13-2	X	X	X	X	
Titanium dioxide 13463-67-7	X	X	X		
Xylene, mixed isomers 1330-20-7	X	X	X	X	X

CONTINUED

International Regulations

Mexico
National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Zinc oxide 1314-13-2 (7 - 13)		Mexico: TWA 5 mg/m3 Mexico: TWA 10 mg/m3 Mexico: STEL 10 mg/m3
Titanium dioxide 13463-67-7 (7 - 13)		Mexico: TWA= 10 mg/m3 Mexico: STEL= 20 mg/m3
Xylene, mixed isomers 1330-20-7 (5 - 10)		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m3 Mexico: STEL 150 ppm Mexico: STEL 655 mg/m3

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not determined

SECTION 16- OTHER INFORMATION

DATE ISSUED:	12/17/2013
REVISION:	10/22/2015
SDS REF. No:	Flex:Hydro
REVISION INDICATOR:	1.2

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End of Material Safety Data Sheet