

MATERIAL SAFETY DATA SHEET

DIVERSIFIED WATERSCAPES, INC.

27324 Camino Capistrano #213
Laguna Niguel, CA 92677
(949) 582-5414

Revision Date: 10/27/99

SECTION 1: PRODUCT INFORMATION

Trade/Material Name:	Formula F-20
Chemical Name:	Enviro-Clear
Manufacturer:	Diversified Waterescapes, Inc.
Phone:	949-582-5414 & 760-837-3700
HMIS:	Health 1 Fire 2 Reactivity 0
NFPA:	Health 1 Fire 2 Reactivity 0

SECTION 2: HAZARDOUS INGREDIENTS

Ingredient/Chemical Name:	Light hydrocarbon petroleum distillate
CAS:	64742-47-8
TWA TLV:	100 ppm
OSHA PEL:	Not established
STEL TLV:	Not established
Ingredient/Chemical Name:	Ethoxylated nonylphenol, branched

CAS:	68412-54-4
TWA TLV:	Not established.
OSHA PEL:	Not established.
STEL TLV:	Not established.

SECTION 3: IDENTIFICATION AND PHYSICAL DATA

Product Name:	ICS-2835M SH
Product Class:	Cationic polyacrylamide
Dot Hazard Class:	Combustible liquid-bulk only
ID Number:	NA 1993
Shipping Name:	Combustible liquid, n.o.s., NA 1993 PG III (contains petroleum distillate)
Vapor Pressure @ 20C:	Not determined.
Vapor Density:	> air
Volatile Organic Compounds:	Not determined.
% Volatile by Volume:	50-70%
Boiling Range:	100C and above.
Specific Gravity:	1.0
Water Solubility (%):	= 10% forms gel
Evaporation Rate:	Not determined.
Melting Point:	Not applicable.
Appearance & Odor:	White liquid emulsion with slight organic odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 65C (setaflash closed tester)
LEL:	0.9% (estimate)
Extinguishing Media:	Use carbon dioxide or dry chemical for small fires and fog or foam for large fires.
Unusual Fire and Explosion Data:	When exposed to extreme heat, closed containers may rupture and release ignitable vapors. Water can cause extremely slippery floor surfaces.
Special Fire Fighting Procedures:	Wear self contained breathing apparatus and complete personal protective equipment when entering confined areas where there is potential for exposure to vapors or combustion products.

SECTION 5: REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	No.
Conditions To Avoid:	No unusual activity.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Normally stable. Combustion products may include ammonia and oxides of carbon and nitrogen.
Incompatibility:	Unknown. No information available.

SECTION 6: HEALTH HAZARD DATA

Effects of Overexposure:

Inhalation:

Breathing vapors or mists may irritate respiratory system and cause breathing difficulties. Effects on the central nervous system may include headaches, weakness, dizziness and drowsiness.

Skin Absorption:

Product contains trace amounts of acrylamide. Prolonged exposure to liquid or dried product may cause numbness, tingling or weakness in the extremities.

Ingestion:

Contains materials that may be slightly toxic. May cause irritation of the gastrointestinal tract. Contains materials that if aspirated into the lungs during ingestion or vomiting, may cause pulmonary injury and possibly death.

Health Hazard - Skin Contact:

Contains materials that may cause moderate skin irritation. Prolonged exposure to liquid or dried product may cause drying or defatting and cracking of the skin.

Health Hazard - Eye Contact:

Product contains materials which can cause eye irritation. Permanent damage is possible if contact is prolonged.

Chronic Effects:

Breathing vapors or mist may aggravate pre-existing symptoms of asthma or other lung disorders. Repeated exposure to trace amounts of acrylamide in liquid or dried product may cause development of neurotoxicological effects.

Emergency And First Aid Procedure:**Eye Contact:**

Immediately flush with water for 15 minutes or longer. Lift upper and lower lids to ensure removal of chemical. Get medical attention.

Skin Contact:

Wash skin with soap and water. Remove and launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-3 glasses of water to drink. **Get medical attention.**

Inhalation:

Move subject to fresh air. Administer artificial respiration if required. Get medical

Carcinogenicity:

attention.

Product contains detectable amounts of acrylamide (CAS # 79-06-1), which is known to the State of California to be a carcinogen.

All components of this product are listed in the TSCA inventory. Acrylamide is described as reasonably anticipated to be a carcinogen by the National Toxicology Program (NTP) and as a probable carcinogen by the International Agency for Research on Cancer (IARC).

IARC Monographs:

None.

OSHA Regulated:

No.

**Signs And Symptoms
Of Exposure:**

Unknown. No information available.

**Medical Conditions
Generally Aggravated By
Exposure:**

Unknown. No information available.

**SECTION 7:
PRECAUTIONS FOR SAFE HANDLING AND USE**

Spill and Leak Procedures:

**Material is Released or spilled:
(steps to be taken)**

Ventilate area and remove ignition source. Dike spill and collect for disposal or reuse. Absorb residual with inert material and collect for disposal. Flush area with water. Prevent polymer and washings from entering surface waters. Wet polymer may cause slippery conditions.

Waste Disposal Method:

Incinerate or place in chemical landfill in accordance with federal, state and local regulations. The material as sold is not a hazardous waste under RCRA regulations.

**Precautions To Be Taken
In Handling And Storing:**

Store in a cool, dry place. Keep container tightly closed when not in use. Keep away from food or

feed. Do not get in eyes or on skin. Wash thoroughly after handling.

Other Precautions:

Always obey hazard warnings and handle empty containers as if full.

**SECTION 8:
CONTROL MEASURES -
SPECIAL PROTECTION INFORMATION**

Respiratory Protection:

If misting conditions exist, wear NIOSH approved mist respirator.

Ventilation:

Use in well ventilated area. Ventilate storage tanks to exterior of buildings. Local ventilation is recommended to control exposure from operations that can generate aerosols, mists or vapors.

Protective Gloves:

Neoprene, polyvinyl, butyl rubber or nitrile rubber gloves are recommended.

Eye Protection:

Chemical splash goggles are required.

Other Protective Equipment:

For operations where contact can occur, coveralls, apron and rubber foot coverings are recommended. A safety shower and eye wash should be available.

Mechanical:

Local mechanical exhaust at use point.

Work/Hygienic Practices:

Shower after work, using plenty of soap and water. Report any untoward condition at once.

**SECTION 9:
SPECIAL PRECAUTIONS**

Precautions To Be Taken In Handling and Storing

Product and its solutions are extremely slippery. Keep from freezing.

Other Precautions:

None.

SECTION 10:

REGULATORY INFORMATION

State R-T-K Information:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Comment</u>
Light hydrotreated petroleum distillate	64742-47-8	
Ethoxylated nonylphenol, branched	68412-54-4	
Cationic polyacrylamide	69418-26-4	
Nonionic surfactant	1338-43-8	
Water	7732-18-5	
Acrylamide	79-06-1	< 0.1%

SARA Title III Information:

Not applicable.

RCRA Information:

Not regulated as a hazardous waste.

CERLLA Information:

Not applicable.

California Proposition 65 Information:

Product contains detectable amounts of acrylamide (CAS # 79-06-1), which is known to the State of California to be a carcinogen.

Other Information:

All components of this product are listed in the TSCA inventory. Acrylamide is described as reasonably anticipated to be a carcinogen by the National Toxicology Program (NTP) and as a probable carcinogen by the International Agency for Research on Cancer (IARC).

The DOT defines Combustible Liquid as a hazard class only for bulk packaging; i.e., when a single package has a minimum capacity greater than 450 L (119 gallons).

NOTE:

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NO LIABILITY WHATSOEVER IS ASSUMED FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION.