



ADVANCED POLYMER, INC.

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APS-286 Emulsion

APS-286 Emulsion is a solvent free, 50% active emulsion of 10,000 centistoke polydimethyl siloxane. APS-286 Emulsion provides an economical, easy and convenient way to use silicones in aqueous systems; even when high dilution stability is required. APS-286 Emulsion is easily diluted by adding water to the emulsion with mild agitation. APS-286 emulsion is highly effective when used at very low concentrations. APS-286 emulsion is chemically inert and will not cause discoloration during the manufacturing process.

CHARACTERISTICS

- Easily diluted
- Minimal agitation required to form a stable emulsion

APPLICATION

APS-286 emulsion can be used as a general-purpose release aid in the molding, extrusion, and casting of a variety of materials such as rubber, plastics and metals. Other applications include leather, glass and vinyl cleaners, polish formulations, textile softeners, fiber lubricants, foundry release aids, aerosol sprays, and, as printing release agents.

APS-286 emulsion can be diluted with water by slowly adding water to the emulsion with mild agitation. Prepared dilutions of 0.5% to 3% solids are recommended.

PACKAGING

APS-286 emulsion is available in 8 oz. samples and 441-lb drums.

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I want to know more!

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TYPICAL PROPERTIES

Appearance:	Milky white emulsion
Ionic Characteristic:	Nonionic
Solid Content:	50%
Solvent:	Dispersible in water
Specific Gravity:	0.991

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- DAIMUL 60

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Revised March 29, 2010

APS-286 EMULSION

Section I Product Identity

Product Name	APS-286 EMULSION
Chemical Name/Family	Polysiloxane emulsion
CAS Registry	NA Mixture
24 Hour Emergency Number	800-424-9300
24 Hour Chemtrec Number	800-424-9300
All ingredients are listed in EPA's TSCA list of chemical substances	

Section II Hazardous Components/Composition Information

CHEMICAL :	CAS #:	USOS:	TWA:	STEL:	PERCENT:
None					

Section III Physical and Chemical Properties

Boiling Point	>212°F
Specific Gravity	0.991
Vapor Pressure	<20
Vapor Density (Air=1)	>1.0
Percent Volatile by Weight	50
Evaporation Rate (BuAc=1)	<1.0
Solubility in Water	Emulsion
Appearance and Odor	Milky white emulsion, odorless

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	ND
Flammable Limits in Air (% By Volume)	ND
Extinguishing Media	Water, Foam, Dry chemical, CO2
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment
Unusual Fire and Explosion Hazard	None

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing.
Incompatibilities	Avoid contact with strong oxidizing agents and acids. Aluminum at high temperatures.
Hazardous Decomposition or By Products	Combustion may produce CO2 or CO
Hazardous Polymerization	May Not Occur

Section VI Health hazard Data

Primary Routes of Entry	Inhalation: No	Dermal: Yes	Ingestion: Yes
Acute Health hazard	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity	This product does not contain any suspected human carcinogens.		
NTP: No	IARC Monograph: No	OSHA Regulated: No	

Signs and Symptoms of Exposure:

Skin Contact	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eye Contact	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.
Ingestion	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Inhalation	No information available.

Medical Condition Generally Aggravated by Exposure

No information available

Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water. Seek medical attention.
Skin	Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation	Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case the Material is Released or Spilled:

Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal Method:

Dispose of according to EPA, State and Local regulations.

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing *** **Agitate contents of container before using** ***

Section IX Control Measures

Respiratory Protection	Not required	
Ventilation	Local exhaust	Not required
	Mechanical	
	Special	
	Other	
Eye Protection	Safety glasses should be worn	
Protective Gloves	Rubber or plastic gloves should be worn	
Protective Clothing	Rubber apron	
Other Protective Equipment	NIOSH approved respirator as needed	
Other Precautions	Wash hands after use.	

Section X SARA Title III

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SECTION 331 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

CAS #	Chemical Name	Percent by Weight

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

Section XI Transportation Information

SHIPPING INFORMATION

APS-286 EMULSION is classified non-hazardous and is not regulated by DOT.

Hazard Ratings

Health	1
Flammability	1
Reactivity	0

Date Prepared December 3, 2005

Prepared By API

Date Revised March 29, 2010

Revised By API

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