

Product Name: Redux 300 Effective date: 12/15/2007

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SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION

Product Name Redux 300

Chemical Name Aqueous Blended Deposit Control Agent

Chemical Family

Formula Synonym

COMPANY IDENTIFICATION

Redux Technology Division of Azure Water Services, LLC 550 VT Rte. 30, P.O. Box 331 Newfane, VT 05345

Phone: 800-639-9506 Fax: 802-365-4652

Email: info@reduxtech.com

EMERGENCY TELEPHONE NUMBER

24 hours a day: CHEMTREC 1-800-424-9300.

Number for non-emergency questions concerning MSDS: (802) 365-7200

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Amount (%W/W)
Water	7732-18-5	~71%
Acrylate Copolymer	Not Hazardous	~4%
Organic Phosphorous Compound	Proprietary	~16%
Potassium Hydroxide	1310-58-3	~9%



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SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Eye and skin irritant. Prolonged or repeated skin may cause irritation.
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POTENTIAL HEALTH EFFECTS	
INGESTION	May cause severe and permanent damages to mouth throat and stomach. May be fatal if swallowed.
INHALATION	Damages airways and lungs, depending upon amount and duration of exposure. Effects can vary from irritation to bronchitis or pneumonia.
EYE CONTACT	May cause permanent damage, including blindness.
SKIN CONTACT	Harmful contact, but may not cause immediate pain.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. If available, give large quantities of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear.
INHALATION	Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Get medical attention immediately.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. Get medical attention immediately.
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland.



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SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Not flammable or combustible
EXTINGUISHING MEDIA	Use extinguishing media a	ppropriate for surrounding	fire.
SPECIAL FIRE FIGHTING PROCEDURES	Pressure demand self-con clothing should be worn by		on and protective
FIRE AND EXPLOSION HAZARDS	Not a fire or explosion haz	ard	

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE	Absorb with inert material such as vermiculite, shovel into closeable container for
TO SPILLS	disposal. Thoroughly flush residual with water.

SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wear proper safety equipment. Mix only with water. Follow appropriate tank entry procedures (ANSI Z117) and OSHA Confined Space Regulations.
STORAGE PRECAUTIONS	Store in a cool, dry and well-ventilated place. Keep from freezing. Keep container tightly closed when not in use.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. Avoid breathing mists or vapors of this product.
ENGINEERING CONTROLS	Facilities using this product must be equipped with an eyewash station. Local Exhaust: None



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PERSONAL PROTECTIVE EQUIPMENT

Χ	RESPIRATOR	NIOSH/MSHA approved respirator where mists or sprays may be
		generated.
Χ	GOGGLES / FACE	Chemical splash goggles required; also use face shield if exposure is
	SHIELD	severe
Х	APRON	Required; PVC, Neoprene or Vinyl acceptable
Χ	GLOVES	Required; use PVC, Neoprene or Nitrile with long gauntlet or protective
		cuff
Χ	BOOTS	Rubber

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear pale yellow liquid	BOILING POINT	> 212° F
ODOR	Slight Odor	FREEZING POINT	< 32° F
pH	Approx. 3-4	VAPOR PRESSURE	Similar to water
SPECIFIC GRAVITY	1.1	VAPOR DENSITY	Similar to water
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Similar to water

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	Χ		UNSTABLE		
CONDITIONS TO AVOID	Do not mix with anything but water.						
INCOMPATIBILITY	Do not mix with	n quaternay amii	nes, a	cids, sulfic	des and strong oxi	dizer	S.
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon dioxide and carbon monoxide.						
POLYMERIZATION		WILL NOT OCCUR		X	MAY OCCUR		
CONDITIONS TO AVOID	Not applicable	·			_		



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SECTION 11 -- TOXICOLOGICAL INFORMATION

Oral: Rat LD50 = \sim 9,000 mg/kg Dermal: Rabbit LD50 = \sim 29,000 mg/kg

Eye Irritation: Corrosive Skin irritation Mild Irritant

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	May be corrosive to all body tissues which it comes in contact.		
CHRONIC	The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.		

SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY	CONSIDERED X NOT BIODEGRADABLE BIODEGRADABLE			
BOD / COD VALUE	Not established			
ECOTOXICITY	Ceriodaphnia: 48 hr LD50 = 2000 mg/l NOAEL = 1000 mg/l Fathead Minnow: 96 hr LD50 = 2000 mg/l NOAEL = 1000 mg/l			



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SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Product that cannot be used according to the label must be disposed of per manufacturers recomendations. Empty containers may be triple rinsed, then offered for recycling or reconditioning; or puncture and dispose of in a sanitary landfill.						
RCRA CLASSIFICATION						_	
RECYCLE CONTAINER	YES	Х		CODE	2 - HDPE	NO	

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION	HAZARDOUS		NOT HAZARDOUS	Х
DESCRIPTION	Not Hazardous under 29CFR 19	10-1200		

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

	EPA REGISTERED (UNDER	
	FIFRA)	
	FDA REGULATED	
	KOSHER	
	SARA TITLE III MATERIAL	
	USDA AUTHORIZED	
F	NSF APPROVAL	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

1	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
С	WHITE	SPECIAL HAZARD