MATERIAL SAFETY DATA SHEET
COOLANT REJUVENATOR

I. PRODUCT AND MANUFACTURER INFORMATION	
Product name	**COOLANT REJUVENATOR**
Chemical name	NA
Synonyms	SUMPSIDE CONDITIONER AND ADDITIVE
CAS number	NE
Manufacturer	Ashburn Chemical Technologies 2911 Rusk Houston, TX 77003
Emergency phone number	713-425-3000
Date of last revision	1/3/2003

II. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% Optional	OSHA PEL	ACGIH TLV	CHEMICAL AND/OR COMMON NAME(S)
HEXAHYDRO-1,3,5-TRIS(2-HYDROXY-ETHYL)-S-TRIAZINE	(4719-04-4)		NE	NE	

(All other products are not considered to be subject to Section 313 provisions of SARA Title III)

III. PHYSICAL AND CHEMICAL CHARACTERISTICS	
Boiling point @ 760 mm Hg	223 F
Vapor pressure at 20 °C	5.8 mm Hg
Vapor density (air = 1)	No Data
Solubility in water	Completely Miscible
Appearance and color	Water White to Pale Yellow
Specific gravity (H_2O = 1.0)	1.12
PH @ 25 C	9-11 neat
Evaporation rate (butyl acetate = 1)	<1

IV. FIRE AND EXPLOSION HAZARD DATA		
Combustible/Not combustible	Not combustible	
Flammable/Not flammable	Not flammable	
Pyrophoric/Not pyrophoric	Not pyrophoric	
Explosive/Not explosive	Not explosive	
Flash point (test method)	Cleveland Open Cup	
Flammable limits (in Air % by volume)	LEL Not Flammable	PEL Not Flammable
Extinguishing media	Choose extinguishing media suitable for surrounding materials.	
Special fire-fighting procedures or equipment	Use water to cool containers exposed to fire. Use NIOSH approved SCBA positive pressure with fires involving this product.	
Unusual fire and explosion hazards	None expected	

V. REACTIVITY DATA	
Material is stable/unstable	Unstable
Conditions to avoid	Acids and Strong Oxidizers
Incompatibility (materials to avoid)	Acids and Strong Oxidizers
Hazardous decomposition or by-products	Temperatures above 100 F, (Decomposes slowly)
Hazardous polymerization will/will not occur	Will not Occur

VI. HEALTH HAZARD DATA	
Threshold limit value	None Established
Primary route(s) of entry	Inhalation, Dermal, Oral, Eyes
Known Hazards Under 29 CFR 1910.1200	
Mutagenic (genetic defects)	Not a Hazard
Reproductive	Not a Hazard
Systemic	Not a Hazard
Teratogenic (birth defects)	Not a Hazard
Carcinogen listed in:	
NTP (National Toxicology Program)	NO
IARC Monographs	NO
OSHA	NO
Signs and symptoms of exposure	
Inhalation	May cause moderate to severe short term irritation of the throat, mucous membranes, upper respiratory tract, and lungs. Inhalation of high doses may cause pulmonary edema.
Skin contact	Expect moderate to severe irritation consisting of transient redness and swelling. Prolonged exposure may result in rash and allergic skin sensitization.
Eye contact	Expect moderate to severe irritation consisting of redness, swelling and mucous membrane discharge to the conjunctiva.
Ingestion	May cause irritation and gastrointestinal discomfort accompanied by nausea, vomiting, lethargy, or diarrhea.
Emergency first aid procedures	
Inhalation	If person is showing symptoms of exposure remove to fresh air until symptoms of exposure disappear. If breathing is difficult administer oxygen, keep person warm and at rest. Call physician. If person is unconscious, remove to fresh air and call physician immediately. If breathing has stopped, administer artificial respiration and call physician immediately.
Skin contact	Immediately flush with water for 15 minutes. Call a physician. If clothing becomes contaminated, remove contaminated article and launder before re-use.
Eye contact	Immediately flush with water for 15 minutes occasionally opening the upper and lower eyelids. Call a physician at once.
Ingestion	Immediately drink large amounts of water. Vomiting occur, do not induce vomiting. Call a physician at once. Do not give anything by mouth if the person is unconscious or having convulsions.
Medical conditions generally aggravated by exposure	Dermatitis may be aggravated following exposure.
Notes to physician	

VII. PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to take if released or spilled	Create a dike or trench to contain materials. Absorb using sand, clay, or commercial absorbents. Containerize and label all spill materials properly.	
Waste disposal method	Dispose of in accordance with Federal, State, and Local regulations.	
Precautions for handling and storing	Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash with water. Avoid breathing mist or vapor.	
Other precautions	Do not store at temperatures above 100 F.	
Hazard ratings	HMIS	
Health	2	
Flammability	0	
Reactivity	0	
Personal protection		

VIII. CONTROL MEASURES	
Protective gloves (type and material)	Impermeable Gloves
Eye protection	Use face shield with safety glasses
Other protective clothing or equipment	Use of impervious protective boots, protective suit and apron recommended. Eye wash and safety shower must be immediately available in area where materials are handled.
Respiratory protection (specify type)	Wear a NIOSH approved full face supplied air respirator.
Ventilation and conditions	
Local	Yes
Mechanical	
Other	
Special	
Work/hygienic practices	Wash hands thoroughly after contact and prior to handling food.

IX. ADDITIONAL REGULATORY INFORMATION	
SARA hazard category (Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III)	HEALTH: Immediate (acute) Delayed (chronic)
Toxic chemical(s) subject to the supplier notification requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA) and the requirements of 40 CFR part 372	NONE
Ingredient(s) regulated under the Clean Air Act Section 112 hazardous air pollutants and subject to all reporting requirements of CERCLA (Superfund)	NONE

NA – not applicable NR – not reported ND – not determined NE – not established UN – unknown

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