

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Air Refiner, Inc.		EMERGENCY TELEPHONE NO. (405) 672-2311
ADDRESS (Number, Street, City, State, and ZIP Code) 5500 South Hattie, Oklahoma City, OK 73143		
CHEMICAL NAME AND SYNONYMS Alkaline Corrosion Inhibitor		TRADE NAME AND SYNONYMS Carquest 89056 Liquid
CHEMICAL FAMILY	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NaOH				<	12 mg/m ³ dust or mist
NaNO ₂				<	5

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	103 ⁰ F	SPECIFIC GRAVITY (H ₂ O=1)	1.165 ±
VAPOR PRESSURE (mm Hg.)	< Water	PERCENT. VOLATILE BY VOLUME (%)	Water max. 74.4%
VAPOR DENSITY (AIR=1) As Water Vapor		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	Aqueous Solution Complete pH 11.0 - 11.4		
APPEARANCE AND ODOR	Wine red waterlike liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N.A.	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	N.A.			
SPECIAL FIRE FIGHTING PROCEDURES	N.A.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	N.A.			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	None established
EFFECTS OF OVEREXPOSURE Treat as any alkaline solution. May cause burns to eyes, skin or mucous membranes.	
EMERGENCY AND FIRST AID PROCEDURES In case of contact, wash continuously with water for 30 minutes. If eyes, seek aid from a physician.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Acids, ammonia, compounds, reducing agents particularly cyanides, thiocyanates and thiosulfates			
HAZARDOUS DECOMPOSITION PRODUCTS Gaseous nitrogen oxides, CO ₂ , CO			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Avoid contaminating sewers and waterways. Avoid contact with incompatible materials. Avoid skin contact and wear appropriate eye protection.	
WASTE DISPOSAL METHOD Disposal must be in accordance with applicable Federal, state and local regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
VENTILATION	LOCAL EXHAUST to remove mist		SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES	Rubber	EYE PROTECTION Safety glasses - goggles - face shield	
OTHER PROTECTIVE EQUIPMENT Appropriate personal protective equipment impervious to solution			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Avoid storage with incompatible materials	
OTHER PRECAUTIONS	