



SAFETY DATA SHEET

AQUANOX® A4651US Cleaning Agent

GHS FORMAT SDS

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aquanox® A4651US	24 hour Emergency Phone: CHEMTREC USA +1.703.527.3887	Effective Date: April 25, 2008
Application: Cleaning Agent		Supersedes: February 18, 2008
Manufacturer: Kyzen Corporation 430 Harding Industrial Drive Nashville, TN USA Ph: +1.615.831.0888 Fax: +1.615.831.0889 www.kyzen.com	Distributor:	

SECTION 2: HAZARDS IDENTIFICATION

EC Classification: No components are classified by the European Chemical Substances Information System (ESIS) according to Directive 1999/45/EC and its amendments and Annex I of Directive 67/548/EEC.

Risk Phrase(s): None assigned

Potential Health Effects: May be mildly irritating to the eyes and skin. Vapor exposure may cause mild discomfort of the nose and throat. Excessive exposure to vapors may cause dizziness, drunkenness, blurred vision, nausea, vomiting, or headaches; may be harmful if ingested.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

No components are classified by ESIS according to Directive 1999/45/ED and in the Annex I of Directive 67/548/EEC.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedures for Overexposure:

Eye Contact	Immediately flush with water for 15 minutes while lifting eyelids and rolling eyes. If irritation develops get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation occurs. Remove contaminated clothing and launder before reuse.
Inhalation	Move person to fresh air. If necessary, restore and support breathing. If breathing is difficult, give oxygen. Get immediate medical attention.
Ingestion	Get immediate medical attention. If conscious and medical help is not readily available, give 1 to 2 glasses of water and keep at rest. Never attempt to give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray for dilution to non-flammable mixture

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: Use water spray to cool containers exposed to fire.

Protective Equipment: Firefighters should have eye protection and wear self-contained breathing apparatus.

Continued on p. 2

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately contact emergency personnel and keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental Precautions and Cleanup Methods: Pick up spill on sand, earth, or other non-combustible, absorbent material. Flush or wipe area with water to remove last traces. Collect wash water/material for disposal. Wear all appropriate personal protective equipment.

Note: See Section 8 for personal protective equipment and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, and clothing. Avoid breathing mists and vapors. Avoid prolonged and repeated exposure. Use appropriate personal protective equipment. Do not eat, drink or smoke in handling areas.

Storage: Store in cool, dry, well ventilated location, out of direct sunlight. Keep separate from oxidizers and strong acids. Keep containers tightly closed. Do not reuse empty containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Guidelines:

Exposure Guidelines: None established for product as a whole.

Respiratory Protection: General ventilation and local exhaust are required to minimize or eliminate exposure to mists and vapors. When used in self-contained, well ventilated industrial cleaning devices, personal respiratory protection is not typically required. For extended, direct exposure to misting or vapors, use a NIOSH approved organic respirator as described in OSHA 29CFR 1910.134 or European Standard EN149.

Skin Protection: Wear impervious chemical gloves. Wash hands and exposed skin thoroughly after handling.

Eye Protection: Wear chemical safety goggles, face shield, or safety glasses as described in OSHA eye and face regulation in 29CFR 1910.133 or European EN166.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear light straw liquid	Vapor Pressure	Not determined
Odor	Mild	Vapor Density	Not determined
Physical State	Liquid	Flash Point, °C	None to boiling
pH at 100%	10.0-11.0	Boiling Point, °C/F	99/209
pH at 10%	9.2-10.2	Explosive Limits	Not determined
Melting Point, °C	Not determined	Specific Gravity	0.90-1.10
		Solubility in Water	Yes

These physical properties are typical values based on material tested but may vary from sample to sample. These values should not be construed as guaranteed analysis of any specific lot or as specifications for the product.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Hazardous Polymerization: Will not occur

Incompatible Materials: Oxidizers and strong acids

Conditions to Avoid: Heat, sparks, flame, or other sources of ignition

Hazardous Decomposition Products: Decomposition vapors will mainly consist of oxides of carbon; may contain particles of inorganic oxides and salts

Other: Do not add nitrites due to possible formation of nitrosoamines.

SECTION 11: TOXICOLOGICAL INFORMATION

Health Hazards (Acute and Sub-chronic): Not established on product as a whole.

Health Hazards (Chronic): Not established on product as a whole.

Mutagenicity: Not established on product as a whole.

Continued on page 3

SECTION 12: ECOLOGICAL INFORMATION

<u>Mobility:</u>	This product is miscible with water.
<u>Degradability:</u>	This product is readily biodegradable.
<u>Bio-accumulation:</u>	No data available on product as a whole.
<u>Ecotoxicity:</u>	Risk of oxygen depletion in aquatic systems is very slight. (COD at 0.01% is 124 mg/L)

SECTION 13: DISPOSAL CONSIDERATIONS

<u>Methods of Disposal:</u>	Waste must be disposed of in accordance with government environmental control regulations. Do not reuse empty containers.
<u>Waste Classification:</u>	This material when discarded is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA), 40CFR 261.

European Waste Catalogue Number: 070601: Aqueous washing liquids or mother liquors.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated when shipped by land, air or water.

Proper Shipping Name	Compounds, Cleaning Liquid, Non-hazardous, Non-flammable
Harmonized Code	3402.90.5030, Cleaning Preparations
DOT Label	Non-hazardous, Non-flammable
Hazard Class/Division	Not applicable
UN/NA Number	Not applicable
Packing Group	Not applicable
Placard	Not applicable

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS		EU REGULATIONS	
TSCA Listed	Yes	ADR (Kemler) Code	000 NA
29CFR 1910.1200	None	Hazard Class, Water (WGK):	1, Self classified
SARA 302	No	EC Annex 1 Classification	Not classified
SARA 311/312	Acute	Risk Phrases	None assigned
SARA 313	No	Safety Phrases	S23 Do not breathe vapour/ spray S37/39 Wear suitable gloves and eye/face protection
CERCLA	No	RoHS	Compliant
CA PROP 65	No	VbF Classification:	Not dangerous according to VbF.
Canada WHMIS	D2B	Emissions Control Act (TA-Luft):	I. Sum organic substances 5-15%

SECTION 16: OTHER INFORMATION

<u>NFPA Rating:</u>	Health = 1, Fire = 0, Reactivity = 0
<u>Effective Date:</u>	April 25, 2008
<u>Supersedes Date:</u>	February 18, 2008
<u>Sections Revised:</u>	1, 2, 3, 8, 9, 11, 12, 15, 16
<u>Approved By:</u>	Kyzen Health and Safety

This Material Safety Data Sheet adheres to ANSI standard ANSI Z400.1-1993 and EEC Commission Directive 91/155/EEC.

The data contained herein is based on information currently available to Kyzen Corporation and is believed to be factual. As a formulator and blender, Kyzen Corporation does not manufacture the raw materials used in this product and correspondingly relies on information provided to Kyzen Corporation from material safety data sheets on the specific raw materials in the construction of this material safety data sheet. Such information is to the best of Kyzen Corporation's knowledge and belief to be accurate and reliable as of the date of this MSDS. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY, OR COMPLETENESS. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. This data is not to be taken as a warranty or representation of which Kyzen Corporation assumes legal responsibility. Copyright 2005 Kyzen Corporation. All rights reserved.