

SAFETY DATA SHEET

1. Identification of the Substance/Mixture and of the Company/ Undertaking

Product Name: AQUARIUS II

Product Codes: BRAQU204,BRAQU205,BRAQU55

Company Name: Randall Industries, LLC
4565 Hemlock Road
Cherry Tree, PA 15724

Phone: 814-743-6630
Emergency 24 hour: 1-800-535-5053

Proper Shipping Name: Corrosive Liquids, N.O.S (Potassium Hydroxide)
Identification No: UN1760
Hazard Class: 8
Packaging Group: II
Generic Description: Automatic Dish Wash Detergent

2. Hazards Identification

GHS Classification:

Acute toxicity, dermal (Category 4)
Serious eye damage / eye irritation (Category 1)

Pictogram(s):



Signal Word: DANGER

Hazard Statements:

H312 Harmful in contact with skin
H318 Causes serious eye damage
H302 Harmful if swallowed

Precautionary Statement(s):

P260 Avoid breathing gas/mist/vapours/spray
P363 Wash contaminated clothing before reuse.
P312 Call a POISON CENTER or doctor /physician if you feel unwell.
P280 Wear Protective gloves/protective clothing/eye protection/face protection.
P501 Dispose of contents/container in accordance with federal. state and/or local regulations.
P310 Immediately call a POISON CENTER or doctor / physician .
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P302+352 IF ON SKIN: Wash with soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician immediately.

3 Composition / Information on Ingredients

Substance / Mixture

Chemical Name	CAS-No.	%
Sodium Silicate	1344-09-8	1.0 - 5.0
Potassium Hydroxide	1310-58-3	3.0 - 9.0
Water	7732-18-5	>70.0
Tertapotassium Pyrophosphate	7320-34-5	5.0 - 15.0
Sodium Hypochlorite	7681-52-9	<1.0

4 First Aid Measures

If inhaled	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. Wash off immediately with plenty of water for at least 15 minutes.
In case of eye contact	: Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water for at least 15 minutes.
If swallowed	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Call a Poison control center or doctor immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
General advice	Do not leave the victim unattended.

5 Firefighting Measures

Suitable extinguishing media	Dry chemical Carbon dioxide (CO ₂) Alcohol-resistant foam Water spray jet
Unsuitable extinguishing media	High volume water jet
Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	Carbon dioxide (CO ₂) Carbon monoxide
Specific extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	Standard procedure for chemical fires.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Prevent further leakage or spillage. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

7 Handling and Storage

Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	Keep away from oxidizing agents and strongly acid materials.

8 Exposure Control and Personal Protection

Components with workplace control parameters

OCCUPATIONAL EXPOSURE LIMITS

Chemical identity

	Type	Exposure Limit values	Source
Tetrapotassium Pyrophosphate			
	TWA	210 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) as Particulates not otherwise classified (PNOC)	US. ACGIH Threshold Limit Values (2011)
	STEL	Not Established	
	Type	Exposure Limit values	Source
Sodium Hypochlorite			
	TWA	2 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000)(1989)
	PEL	Not Established	US. ACGIH Threshold Limit Values (2011)
	Type	Exposure Limit values	Source
Sodium Hydroxide			
	TWA	2 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000)(1989)
	PEL	2 mg/m ³	US. ACGIH Threshold Limit Values (2011)

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection Remarks	For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Safety glasses Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures :	General industrial hygiene practice.

9 Physical and Chemical Properties

Appearance/Physical State:	Liquid
Color:	clear
Odor:	bleach
pH:	>12
Specific Gravity	1.20
Melting Point / Freezing Point:	N/D
Boiling Point / Boiling Range:	>212 F
Flash Point:	None
Evaporation Rate:	N/D
Upper Flammability Limit:	N/D
Lower Flammability Limit:	N/D
Vapor Pressure:	N/D
Vapor Density:	N/D
Solubility(ies): in water	100% Complete
Partition Coefficient:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	Water like

10 Stability and Reactivity

Reactivity	Oxidizer
Possibility of hazardous reactions	Do not mix with ammonia No hazards to be specially mentioned.
Conditions to avoid	Excessive heat or open flame.
Incompatible materials	Acids and or ammonia agents
Hazardous decomposition products	Under normal conditions, none are known

11 Toxicological Information

Routes of entry: X Inhalation X Absorption X Ingestion

Acute Exposure Hazards:

Eye contact: Irritation, stinging, redness, burns.
Dermal: Irritation, burns upon prolonged exposure.
Oral: Nausea, vomiting.
Inhalation: Irritation, shortness of breath.

Component:	Result	Species	Dose	Exposure
Sodium Metasilicate	LD50 Oral	Rat - Male & Female	1,152-1,349 mg/kg	
	LC50	Danio rerio(Zebra fish)	210 mg/l	96 hours
Sodium Hypochlorite	LD50 Oral	Rat	8.9g/kg mg/kg	
	LC50	Rainbow trout	0.03-0.07 mg/L	96 hours

12 Ecological Information

Ecotoxicity	See Section 11
Persistence and Degradability:	No data available.
Bioaccumulative potential:	No data available
Mobility in soil	No data available
Other Adverse Effects:	No data available.

13 Disposal Information

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if the discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of the container and unused contents in the accordance with federal, state and local requirements.

14 Transport Information

DOT (US)

Proper Shipping Name: Corrosive Liquids, N.O.S (Potassium Hydroxide)
Identification No: UN1760
Hazard Class: 8
Packaging Group: II

15 Regulatory Information

SARA 313 Components CAS No. % Less Than

California Prop 65
Components

16 Other Information

NFPA	Health Hazards: 3	Flammability: 0	Instability: 0	Special: N/A
HMS	Health Hazards: 3	Flammability: 0	Physical Hazards: 1	

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet 3/30/17
