SAFETY DATA SHEET



QUORUM AMBER

Section 1. Chemical product and company identification

Product name Recommended use and restrictions	RUM AMBER ace cleaner only for the purpose on the product label.	
Product dilution information	5 oz/gal or 39 mL/L in water	
Supplier's information	ab Inc. Food & Beverage Division N. Wabasha Street aul, MN 55102 D-392-3392	
Code	74	
Date of issue	ct 2013 RGENCY HEALTH INFORMATION: 1-800-328-0026 ide United States and Canada CALL 1-651-222-5352 (in USA)	

Section 2. Hazards identification

GHS Classification	Product AS SOLD SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Product AT USE DILUTION SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
GHS label elements		
Signal word Symbol	Danger	Danger
Hazard statements	Causes severe skin burns and eye damage.	Causes severe skin burns and eye damage.
Precautionary statemer	<u>nts</u>	
Prevention	Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.	Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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Section 2. Hazards identification		
	POISON CENTER or physician.	lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage :	No other specific measures identified.	No other specific measures identified.
Disposal :	See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards :	None known.	None known.

Section 3. Composition/information on ingredients

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Substance/mixture : Mixture		
Product AS SOLD		
Hazardous ingredients	Concentration Range (%)	CAS number
POTASSIUM HYDROXIDE sodium hypochlorite TETRAPOTASSIUM PYROPHOSPHATE COCAMINE OXIDE POTASSIUM SILICATE	9 4 5 - 20 1 - 5 1 - 5	1310-58-3 7681-52-9 7320-34-5 61788-90-7 1312-76-1

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin contact	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention immediately. Rinse mouth. Do not induce vomiting.
Protection of first- aiders	: No action shall be taken involving any personal ris dangerous to the person providing aid to give mou clothing thoroughly with water before removing it, or	th-to-mouth resuscitation. Wash contaminated

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

See toxicological information (section 11)

been ingested or inhaled.

Notes to physician

Section 5. Fire-fighting measures

Product AS SOLD	
Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
Specific fire-fighting methods	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	 Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material. 	Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
Environmental precautions	 Avoid contact of spilled material and runoff with soil and surface waterways. 	Avoid contact of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.	Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.	Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed.	Keep out of reach of children. Keep container tightly closed.
	Store between the following temperatures: -20 and 40°C	

Section 8. Exposure controls/personal protection

Ingredient name	E	kposure limits
POTASSIUM HYDRO		CGIH TLV (United States, 3/2012).
		: 2 mg/m ³
		OSH REL (United States, 6/2009). WA: 2 mg/m ³ 10 hours.
sodium hypochlorite		HA WEEL (United States, 10/2011).
		TEL: 2 mg/m ³ 15 minutes.
chlorine	AC	GIH TLV (United States, 3/2012).
		TEL: 2.9 mg/m ³ 15 minutes.
		TEL: 1 ppm 15 minutes.
		WA: 1.5 mg/m ³ 8 hours. WA: 0.5 ppm 8 hours.
		SHA PEL (United States, 6/2010).
		EIL: 3 mg/m³
		EIL: 1 ppm
		OSH REL (United States, 6/2009). EIL: 0.5 ppm 15 minutes.
		EIL: 1.45 mg/m ³ 15 minutes.
	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	contaminants below any recommended or statutory limits. Provide suitable facilities fo
ersonal protection		
Eye protection	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
Hand protection	: Use chemical-resistant, impervious gloves.	Use chemical-resistant, impervious gloves.
Skin protection	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	Use synthetic apron, other protective equipment as necessary to prevent skin contact.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after smoking and using the lavatory and at the end of should be used to remove potentially contaminate	the working period. Appropriate techniques

Section 9. Physical and chemical properties

before reusing.

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Color	: Yellow [Light]	Clear [Light]
Odor	: chlorine	chlorine [Slight]
рН	: 13 (100%)	12
Flash point	: > 100°C Product does not support combustion.	> 100°C

Section 9. Physical and chemical properties

: Not available.	
: Not available.	
: Not available.	
: >100°C (>212°F)	
: Not available.	
: Not available.	
: Not available.	
: 1.24 (Water = 1)	
: Easily soluble in the following materials: cold	
: Not available.	
: Not available.	
: Not available.	
: Not available.	
: Not available.	
	 Not available. Not available. >100°C (>212°F) Not available. Not available. 1.24 (Water = 1) Easily soluble in the following materials: cold water and hot water. Not available.

Section 10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid Materials to avoid	 No specific data. Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: moisture. Reactive or incompatible with the following materials: metals. Slightly reactive or incompatible with the following materials: organic materials. Mixing this product with acid or ammonia releases chlorine gas.
Hazardous decomposition products	 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion			
	Product AS SOLD	Product AT USE DILUTION		
Symptoms				
Eye contact	: Adverse symptoms may include the following: pain watering redness	Adverse symptoms may include the following: pain watering redness		
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	Adverse symptoms may include the following: pain or irritation redness blistering may occur		
Inhalation	: Adverse symptoms may include the following: coughing Respiratory tract irritation	Adverse symptoms may include the following: coughing Respiratory tract irritation		
Ingestion	:			

Section 11. Toxicological information			
	Adverse symptoms may include the following: stomach pains	Adverse symptoms may include the following: stomach pains	
Acute toxicity			
Eye contact	: Causes serious eye damage.	Causes serious eye damage.	
Skin contact	: Causes severe burns.	Causes severe burns.	
Inhalation	: May cause respiratory irritation.	May cause respiratory irritation.	
Ingestion	: May cause burns to mouth, throat and stomach.	May cause burns to mouth, throat and stomach.	

Toxicity data

<u> </u>				
Product/ingredient name				
diphosphoric acid, tetrapotassium salt		LC50 Inhalation	Rat	>1.1 mg/l
		Dusts and mists		
		LD50 Dermal	Rabbit	>2000 mg/kg
		LD50 Oral	Rat	>2000 mg/kg
sodium hypochlorite		LD50 Dermal	Rabbit	>10000 mg/kg
		LD50 Oral	Rat	5230 mg/kg
amines, coco alkyldimethyl, n-oxides		LD50 Dermal	Rat	>2174 mg/kg
		LD50 Oral	Rat	846 mg/kg
silicic acid, potassium salt		LD50 Oral	Rat	1500 to 3200 mg/kg
Chronic toxicity				
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	ects : No known significant effects or critical hazards.			
Fertility effects : No known significant effects or critical hazards.			azards.	

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This materia	l is harmful to aquatic life.		
Aquatic and terrestrial toxicity			
Product/ingredient name	Result	Species	Exposure
potassium hydroxide	Acute LC50 80 mg/l	Fish	96 hours
diphosphoric acid, tetrapotassium salt	Acute EC50 >100 mg/l	Daphnia	48 hours
sodium hypochlorite	Acute EC50 0.071 mg/l	Daphnia	48 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours
silicic acid, potassium salt	Acute LC50 2320 mg/l	Fish	96 hours
Other adverse effects : No known si	gnificant effects or critical hazar	ds.	

Section 13. Disposal considerations

	Product AS SOLD	Product AT USE DILUTION
Disposal methods	: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.	Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.
RCRA classification	: Unused product is D002 (Corrosive)	

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT	
DOT Classification	UN1814
DOT Proper shipping name	Potassium hydroxide, solution
Class	8
Packing group	II
IMO/IMDG	
IMO/IMDG Classification	UN1814
IMO/IMDG Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Class	8
Packing group	II
For transport in bulk, and chinning	decumente for enceifie trenenertation ir

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

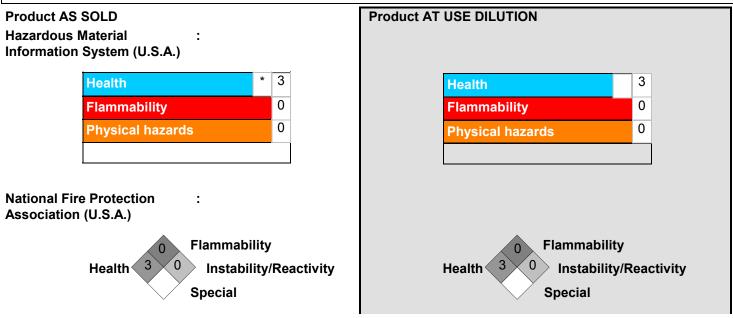
Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

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U.S. Federal regulations			
TSCA 8(b) inventory	: All components are listed or exempted.		
SARA 302/304/311/312 e	xtremely hazardous substances: No listed substance		
SARA 302/304 emergend	cy planning and notification: No listed substance		
<u>SARA 313</u>	Product name	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: No listed substance		
<u>California Prop. 65</u>	: No listed substance		

Section 16. Other information



Section 16. Other information

Date of issue	: 16 Oct 2013
Prepared by	: Regulatory Affairs
	1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.