

According to US Regulation ANSI Z400.1-2004

Print date: 21-Jan-2010

## PRODUCT AND COMPANY IDENTIFICATION

**MSDS Number** D0209315

**Commercial Product Name** Finish Quantum P-free

Formula Number: 1616-023

Quantum 12ct----0 51700 81687 3 UPC Code(s) and Size:

> Quantum 20ct----0 51700 81688 0 Quantum 36ct---- 0 51700 81689 7 Quantum 48ct Club---0 51700 82488 5 Quantum 36+12 Wal-Mart---0 51700 83012 1 Quantum 20+10 Wal-Mart---0 51700 83010 7

Recommended / Intended Use: Detergent for use in domestic automatic dishwashers

Reckitt Benckiser Inc. Distributor:

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

Telephone: +1 973 404 2600

**MSDS** Page 1 of 11 D0209315



According to US Regulation ANSI Z400.1-2004

**Emergency Telephone Number:** 1-800-228-4722 (U.S.)

1-800-338-6167 (Canada)

Transportation Emergencies: 1-800-424-9300 (U.S. & Canada) CHEMTREC

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

# 2. HAZARDS IDEN TIFICATION

# **Emergency Overview**

CAUTION!
HARMFUL IF SWALLOWED
EYE IRRITANT!
Avoid contact with skin and eyes.
DO NOT ingest.

# KEEP OUT OF REACH OF CHILDREN

Contains: Sodium Carbonate, Oxygen based bleaching agents, Enzymes

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains: Sodium Carbonate

Oxygen based bleaching agents

Enzymes

Chemical Name	Proportion (% w/w)	ACGIH - Occupational Exposure Limits - TWAs	OSHA PEL	
Sodium carbonate 497-19-8	15 - 30 %	-	-	
Sodium percarbonate 15630-89-4	15 - 30 %	-	•	
Trisodium citrate 68-04-2	5 - 10 %	-	•	
Fatty Alcohol Alkoxylate 68937-66-6	1 - 5 %	-	-	
Subtilisin 9014-01-1	0.1 - 1 %	0.00006 mg/m³ Ceiling	0.00006 mg/m³ STEL	
Alpha Amylase 9000-90-2	< 0.1 %	-	-	



According to US Regulation ANSI Z400.1-2004

## 4. FIRST AID MEASURES

Inhalation Move to fresh air. If symptoms persist, call a physician.

Skin Contact If skin irritation persists, call a physician. Rinse immediately with plenty of water for at least

15 minutes.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Ingestion DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Clean mouth with water and afterwards drink plenty of water. Consult a physician if

necessary.

Notes to Physician Treat symptomatically

**Protection of First-aiders** Use personal protective equipment.

**Aggravated Medical Conditions:** No information available.

# 5. FIRE-FIGHTIN G MEASURES

Flash point: > 212°F / 100°C

Suitable Extinguishing Media: The product is not flammable.

All extinguishing media can be used.

Extinguishing media which must not No information available

be used for safety reasons:

Unusual hazards: None known.

fighters

Special protective equipment for fire- As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH

(approved or equivalent) and full protective gear.

Precautions for fire-fighting Standard procedure for chemical fires.

Health Hazard: 2 NFPA: Flammability: 0 Physical Hazard: 0

HMIS: Health Hazard: 2 Flammability: 0 Physical Hazard: 0 Personal Protection: B

(Also see Sections 3 & 8) Key:



According to US Regulation ANSI Z400.1-2004

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with the skin and the eyes.

Use personal protective equipment.

Environmental Precautions: Local authorities should be advised if significant spillages cannot be contained. Do not flush

with water.

**Methods for Cleaning Up:** Clean-up methods - small spillage:

Take up mechanically and collect in suitable container for disposal.

Clean contaminated surface thoroughly. Clean-up methods - large spillage:

Large spills should be diked, contained and collected for later disposal according to local,

provincial, state or federal regulations.

Methods for Containment: Prevent further leakage or spillage if safe to do so

#### 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment

Ensure adequate ventilation

**Storage:** Keep tightly closed in a dry and cool place.

Keep in properly labeled containers. Keep away from direct sunlight.

Keep at temperatures above 0  $^{\circ}$ C / 32  $^{\circ}$ F. Keep at temperatures below 30  $^{\circ}$ C / 86  $^{\circ}$ F.

Protect from water.

# 8. EXPOSURE CONTROLS/ PERSON AL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Sodium carbonate 497-19-8		-
Sodium percarbonate 15630-89-4	-	-
Trisodium citrate 68-04-2	-	-
Fatty Alcohol Alkoxylate 68937-66-6	-	-
Subtilisin 9014-01-1	Ceiling: 0.00006 mg/m <sup>3</sup>	0.00006 mg/m³ STEL
Alpha Amylase 9000-90-2	-	-



According to US Regulation ANSI Z400.1-2004

Engineering Controls: For occupational exposures, ensure adequate ventilation.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained

**Personal Protective Equipment** 

**Respiratory Protection:** None required under normal usage.

Eye/Face Protection: Tightly fitting safety goggles

Hand Protection: PVC disposable gloves.

Skin and Body Protection: Usual safety precautions while handling the product will provide adequate protection against

injury or irritation. Follow product label instructions.

**Hygiene Measures:** Avoid contact with skin, eyes and clothing.







According to US Regulation ANSI Z400.1-2004

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid. Liquid.

Appearance: Tablet (17.8 - 18.2 g)

Colour: White Red

Blue

Odour: Characteristic.

**pH** 10.3 (10 %)

Alkaline Reserve [g NaOH/100g] 2.0

Flash Point: > 100°C /> 212°F

Flammability Limits in Air: No information available

Autoignition Temperature: No information available.

Specific Gravity / Density [g/mL]: No data available.

Vapour Pressure: Not determined.

**Solubility:** soluble in water (300g/L).

- upper: no data availabel.- lower: no data availabel.

# 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Temperatures below 0 °C / 32 °F above 40 °C / 104 °F

Protect against water

Materials to Avoid: Do not mix with bleach or other household chemicals.

Hazardous Decomposition Products: Oxides of carbon and unknown organic compounds.

**Polymerization:** None under normal processing. Hazardous polymerization does not occur.



According to US Regulation ANSI Z400.1-2004

## 11. TOXICOLOGICAL IN FORMATION

# PRODUCT TOXICITY DATA

LD<sub>50</sub> Oral: >2000 mg/kg (rat) estimated

LD<sub>50</sub> Dermal: >2000 mg/kg (rat) estimated LC<sub>50</sub> Inhalation (Dust): >5 mg/m³ (dust) estimated LC<sub>50</sub> Inhalation (Vapor): >20 ml/m³ (vapor) estimated

**ACUTE EFFECTS::** 

**Eye Irritation** Irritating to eyes.

**Skin Irritation** None expected during normal conditions of use.

**Inhalation** None expected during normal conditions of use.

**Ingestion** Health injuries are not known or expected under normal use.

**Sensitization** Not expected to be a skin sensitiser.

**Specific Effects** 

Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

**Reproductive Toxicity:** No information available.

Additional Toxicity Information: Information is based on available component data and toxicity result of similar products.

#### COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - with units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Sodium carbonate	497-19-8	4090 mg/kg ( Rat )		
Sodium percarbonate	15630-89-4	1034 mg/kg ( Rat )		
Subtilisin	9014-01-1	3700 mg/kg ( Rat )		
Alpha Amylase	9000-90-2	> 7500 mg/kg ( Rat )		



According to US Regulation ANSI Z400.1-2004

## 12. ECOLOGICAL IN FORMATION

## PRODUCT TOXICITY DATA

**Ecotoxicity effects** 

Aquatic toxicity: No information available

COMPONENT TOXICITY DATA

Sodium carbonate 497-19-8 (15 - 30 %)

Freshwater Algae EC50 = 242 mg/L 120 h

Freshwater Fish LC50 = 300 mg/L Lepomis macrochirus 96 h

Water Flea EC50 = 265 mg/L 48 h

Sodium percarbonate 15630-89-4 (15 - 30 %)

Freshwater Algae h EC50 240 70 mg/L

Trisodium citrate 68-04-2 (5 - 10 %)

Freshwater Algae h EC50 96 1800 - 3200 mg/L

Other Information

Ozone depletion potential; ODP; No information available.

(R-11 = 1)

Global Warming Potential (GWP): No information available.

Additional Ecological Information: Information given is based on data on the components and the

ecotoxicology of similar products.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products:

Dispose of in accordance with local regulations.

Contaminated Packaging: Empty containers should be taken to local recyclers for disposal. Dispose of as unused

product.

Waste Disposal: Dispose of according to Local, State, Provincial and / or Federal regulations.



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14. TRAN SPORT IN FORMATION

General remarks Not classified as dangerous in the meaning of transport regulations. For long distance

transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

**DOT** Not regulated

TDG Not regulated

MEX Not applicable.

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not applicable.

ADR Not applicable.

ADN Not applicable.

# 15. REGULATORY IN FORMATION

Chemical Name	PICCS	TSCA	DSL	NDSL	ENCS	CHINA	AICS	EINECS/ ELINCS	South Africa STELs
Sodium carbonate	Present	Present	Х		X	X	X	207-838-8	
Sodium percarbonate	Present	Present	X		X	X	Χ	239-707-6	
Trisodium citrate		Present	X		X	X	Χ	200-675-3	
Fatty Alcohol Alkoxylate		XU	Х			X	Χ	None	
Subtilisin	Present	XU	IUB#3.4.21.6			X	Х	232-752-2	
			2						
Alpha Amylase		XU	IUB#3.2.1.1			X	X	232-565-6	



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## U.S. Regulations:

Sodium carbonate - 497-19-8

NJRTK Not Listed.

**Appearance** Grayish-w hite pow der or lumps

SARA313 None
California Prop. 65 Not Listed

Sodium percarbonate - 15630-89-4

NJRTK Not Listed.
SARA313 None
California Prop. 65 Not Listed

Trisodium citrate - 68-04-2

NJRTK Not Listed.
Appearance None.
SARA313 None
California Prop. 65 Not Listed

Fatty Alcohol Alkoxylate - 68937-66-6

NJRTK Not Listed.
Appearance None.
SARA313 None
California Prop. 65 Not Listed

Subtilisin - 9014-01-1

NJRTK Not Listed.
Appearance None.
SARA313 None
California Prop. 65 Not Listed

Alpha Amylase - 9000-90-2

NJRTK Not Listed.
Appearance None.
SARA313 None
California Prop. 65 Not Listed

#### WHMIS (Canada)

WHM IS Hazard Class D2B Toxic materials





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# 16. OTHER IN FORMATION

National Fire Protection Association (U.S.A.):



HMIS (U.S.A.):

Health Hazard	2
Flammability:	0
Physical hazards	0
	ь
PERSONAL PROTECTION	B

Reason for revision: Update product information

Additional advice: This product should only be used as directed on the label and for the purpose intended.

Prepared by: Regulatory Department

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