



# Reckitt Benckiser

## MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Print date: 20-Jan-2010

### 1. PRODUCT AND COMPANY IDENTIFICATION

**MSDS Number** D0250346

**Commercial Product Name** Finish - Gel - All scents

**Formula Number:** Lemon: 0056445  
Orange: 0204431

**UPC Code(s) and Size:** For US:  
51700-75708 (75oz) Lemon  
51700-76611 (75oz) Orange  
51700-79350 (75oz) Fresh

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

**Distributor:** Reckitt Benckiser Inc.  
Morris Corporate Center IV  
399 Interpace Parkway (P.O. Box 225)  
Parsippany, New Jersey 07054-0225  
Telephone: +1 973 404 2600

**Emergency Telephone Number:** 1-800-228-4722 (U.S.)  
1-800-338-6167 (Canada)

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**Transportation Emergencies:** 1-800-424-9300 (U.S. & Canada) CHEMTREC  
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

**2. HAZARDS IDENTIFICATION****Emergency Overview**

CAUTION!  
HARMFUL IF SWALLOWED  
EYE AND SKIN IRRITANT  
DO NOT ingest.

Avoid contact with eyes, skin, mucous membranes and clothing.  
DO NOT MIX with other household products as harmful fumes may be generated.  
Not for hand washing.

**KEEP OUT OF REACH OF CHILDREN****Contains: Chlorine Bleach, Sodium Silicate and Potassium Hydroxide.****3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Contains:** Chlorine Bleach, Sodium Silicate and Potassium Hydroxide.

Chemical Name	Proportion (% w/w)	ACGIH - Occupational Exposure Limits - TWAs	OSHA PEL
Sodium Silicate, molar ratio >1.6 - <= 2.6 1344-09-8	10 - 15 %	-	-
Potassium hydroxide 1310-58-3	< 2.5 %	-	-
Sodium hypochlorite 7681-52-9	0.1 - 1 %	-	-

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**4. FIRST AID MEASURES**

<b>Inhalation</b>	Move to fresh air.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, call a physician.
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. If symptoms develop or persist, call a physician.
<b>Ingestion</b>	If swallowed, promptly drink a large quantity of water. DO NOT induce vomiting! Contact a Physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Treat symptomatically
<b>Protection of First-aiders</b>	Use personal protective equipment.
<b>Aggravated Medical Conditions:</b>	No information available.

**5. FIRE-FIGHTING MEASURES**

<b>Flash point:</b>	No information available.
<b>Suitable Extinguishing Media:</b>	As suitable for surrounding fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	No information available
<b>Specific hazards:</b>	See Section 3, Hazard Identification.
<b>Unusual hazards:</b>	None known.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
<b>Precautions for fire-fighting</b>	Standard procedure for chemical fires.

<b><u>NFPA:</u></b>	<b>Health Hazard: 2</b>	<b>Flammability: 0</b>	<b>Physical Hazard: 0</b>	
<b><u>HMIS:</u></b>	<b>Health Hazard: 2</b>	<b>Flammability: 0</b>	<b>Physical Hazard: 0</b>	<b>Personal Protection: D</b>
<b><u>Key:</u></b>	D. (Also see Sections 3 & 8)			

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Ensure adequate ventilation.  
Use personal protective equipment.  
Avoid contact with skin, eyes and clothing
- Environmental Precautions:** Do not allow material to contaminate ground water system. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
- Methods for Cleaning Up:** Small spills: Wearing appropriate protective equipment, soak up with an inert absorbent material and dispose of in an appropriate waste container. Rinse surface residue and flush to sink or sanitary sewer.
- Methods for Containment:** Prevent further leakage or spillage if safe to do so

**7. HANDLING AND STORAGE**

- Handling:** Ensure adequate ventilation  
DO NOT mix with other household chemicals such as products containing ammonia, toilet bowl cleaners, or acid cleaners as hazardous gases may be released.  
Avoid contact with skin, eyes and clothing
- Storage:** Keep out of the reach of children.  
Keep containers tightly closed in a cool, well-ventilated place  
Keep in properly labeled containers.  
Keep at temperatures below 50 °C / 120 °F.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL
Sodium Silicate, molar ratio >1.6 - <= 2.6 1344-09-8	-	-
Potassium hydroxide 1310-58-3	-	-
Sodium hypochlorite 7681-52-9	-	-

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<b>Engineering Controls:</b>	None required under normal use conditions.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained
<b><u>Personal Protective Equipment</u></b>	
<b>Respiratory Protection:</b>	None required under normal usage.
<b>Eye/Face Protection:</b>	Tightly fitting safety goggles
<b>Hand Protection:</b>	Impervious gloves.
<b>Skin and Body Protection:</b>	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.
<b>Hygiene Measures:</b>	Avoid contact with eyes, skin, and clothing.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid.
<b>Appearance:</b>	Gel
<b>Colour:</b>	Blue
<b>Odour:</b>	Characteristic.
<b>pH</b>	11.3 +/- 0.2 (10 %)
<b>Flash Point:</b>	> 100°C / > 212°F
<b>Flammability Limits in Air:</b>	No information available
<b>Autoignition Temperature:</b>	No information available.
<b>Viscosity:</b>	19,800mPa*s (68 °F)
<b>Specific Gravity / Density [g/mL]:</b>	1.10 - 1.25
<b>Vapour Pressure:</b>	Not determined.
<b>Solubility:</b>	soluble.

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**10. STABILITY AND REACTIVITY**

- Stability:** Stable under recommended storage conditions.
- Conditions to Avoid:** Avoid direct sunlight. Do not expose to heat or store at temperatures above 120°F (50°C).
- Materials to Avoid:** Do not mix with bleach or other household chemicals.
- Hazardous Decomposition Products:** Oxides of carbon and unknown organic compounds.
- Polymerization:** Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION**
**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):** No information available
- LC<sub>50</sub> Inhalation (Vapor):** No information available

**ACUTE EFFECTS::**

- Eye Irritation** Irritating to eyes.
- Skin Irritation** None expected during normal conditions of use.  
None-corrosive properties being confirmed by in-Vitro tests (corrositex-test and OECD 431).
- Inhalation** None expected during normal conditions of use.
- Ingestion** Harmful if swallowed.  
Ingestion could cause irritation of the mouth and throat.
- 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 Silicate, molar ratio >1.6 - </= 2.6	1344-09-8	1153 mg/kg ( Rat )	4640 mg/kg ( Rabbit )	
Potassium hydroxide	1310-58-3	214 mg/kg ( Rat )		
Sodium hypochlorite	7681-52-9	8200 mg/kg ( Rat )	10000 mg/kg (Rabbit)	

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**12. ECOLOGICAL INFORMATION****PRODUCT TOXICITY DATA****Ecotoxicity effects****Aquatic toxicity:** No information available**COMPONENT TOXICITY DATA***Sodium Silicate, molar ratio >1.6 - <= 2.6*

1344-09-8 (10 - 15 %)

**Freshwater Fish**

LC50 = 3185 mg/L Brachydanio rerio 96 h

*Potassium hydroxide*

1310-58-3 (&lt; 2.5 %)

**Freshwater Fish**

LC50 = 80 mg/L (Moskito fish 96 h)

*Sodium hypochlorite*

7681-52-9 (0.1 - 1 %)

**Freshwater Algae**

EC50 = 0.095 mg/L 24 h

**Freshwater Fish**

LC50 0.22 - 0.62 mg/L Pimephales promelas 96 h

LC50 = 5.9 mg/L Pimephales promelas 96 h

**Water Flea**

EC50 = 2.1 mg/L 96 h

**Other Information****Ozone depletion potential; ODP;  
(R-11 = 1)**

No information available.

**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:**

Dispose of as unused product.

**Waste Disposal:**

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

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**14. TRANSPORT INFORMATION**

<b>General remarks</b>	For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.
<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

**15. REGULATORY INFORMATION**

Chemical Name	PICCS	TSCA	DSL	NDSL	ENCS	CHINA	AICS	EINECS/ ELINCS	South Africa STELs
Sodium Silicate, molar ratio >1.6 - <= 2.6		Present	X		X	X	X	215-687-4	
Potassium hydroxide		Present	X		X	X	X	215-181-3	
Sodium hypochlorite		Present	X		X	X	X	231-668-3	



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**U.S. Regulations:**

*Sodium Silicate, molar ratio >1.6 - <= 2.6 - 1344-09-8*

**NJRTK** Not Listed.

**Appearance** None.

**SARA313** None

**California Prop. 65** Not Listed

*Potassium hydroxide - 1310-58-3*

**NJRTK** Not Listed.

**Appearance** White solid. Available as pellets, flakes, lumps or sticks. Commonly available in solution.

**SARA313** None

**California Prop. 65** Not Listed

*Sodium hypochlorite - 7681-52-9*

**NJRTK** Not Listed.

**Appearance** Green to yellow , w atery liquid

**SARA313** None

**California Prop. 65** Not Listed

**WHMIS (Canada)**

**WHMIS Hazard Class** D2B Toxic materials



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**16. OTHER INFORMATION**

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



HMIS (U.S.A.):

Health Hazard	2
Flammability:	0
Physical hazards	0
<b>PERSONAL PROTECTION</b>	<b>D</b>

**Reason for revision:** New product

**Additional advice:** Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

**Prepared by:** Regulatory Department on January 20,2010

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