



MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Print date: 20-Jan-2010

1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number D0038829

Commercial Product Name Finish - Jet Dry - Machine cleaner

Formula Number: #0256834; #1402-186
(#0038832; #1184-180)

UPC Code(s) and Size: 0 51700 82887 6

Recommended / Intended Use: Detergent to clean Dishwashers

Manufacturer Reckitt Benckiser
30 Arrowhead Industrial Blvd.
St. Peters, Missouri 63376
USA

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

Reckitt Benckiser (Canada) Inc.
1680 Tech Avenue, Unit #2
Mississauga, Ontario L4W 5S9
CANADA

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

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2. HAZARDS IDENTIFICATION
Emergency Overview

CAUTION!
EYE AND SKIN IRRITANT
 Avoid contact with skin and eyes.
 Contains:
 Citric Acid.

DO NOT mix with chlorine bleach or any other products as harmful fumes may result.

KEEP OUT OF REACH OF CHILDREN

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Proportion (% w/w)	ACGIH - Occupational Exposure Limits - TWAs	OSHA PEL
Citric acid 77-92-9	15 - 30 %	-	-
Sodium 2-phenylpropane-2-sulfonate 28348-53-0	< 2.5 %	6 mg/m ³ (Huels AG Marl)	-
Propane-1,2-diol 57-55-6	< 2.5 %	-	-

4. FIRST AID MEASURES

Inhalation	Move to fresh air. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Eye Contact	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.
Ingestion	Rinse mouth. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. 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.

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5. FIRE-FIGHTING MEASURES

Flash point:	See section 9
Suitable Extinguishing Media:	As suitable for surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available
Specific hazards:	See Section 3, Hazard Identification.
Unusual hazards:	None known.
Special protective equipment for fire-fighters	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.

NFPA:	Health Hazard: 2	Flammability: 0	Physical Hazard: 0	
HMIS:	Health Hazard: 2	Flammability: 0	Physical Hazard: 0	Personal Protection: B
Key:	B. (Also see Sections 3 & 8)			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid contact with the skin and the eyes. Keep people away from and upwind of spill/leak
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 Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13)

7. HANDLING AND STORAGE

Handling:	Wear personal protective equipment
Storage:	Keep in properly labeled containers. Keep container tightly closed Keep containers tightly closed in a cool, well-ventilated place Keep out of the reach of children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Citric acid 77-92-9	-	-
Sodium 2-phenylpropane-2-sulfonate 28348-53-0	6 mg/m ³ (Huels AG Marl)	-
Propane-1,2-diol 57-55-6	-	-

Engineering Controls: None required under normal use conditions.

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: Impervious 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 eyes, skin, and clothing.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Appearance:	Liquid.
Colour:	Blue
Odour:	perfumed, typical to meet the Tradename descriptor
pH	1.25 ± 0.3 (100 %)
Flash Point:	> 100°C / > 212°F
Flammability Limits in Air:	No information available
Autoignition Temperature:	No information available.
Viscosity:	4 - 12 mPa*s - sp.1 / 60rpm (20°C/68°F)
Specific Gravity / Density [g/mL]:	1.217 - 1.122 (20°C/68°F)
Vapour Pressure:	Not determined.
Solubility:	No information available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid direct sunlight. dirt, chemical contamination, ultraviolet (UV) or ionizing radiation Store away from excessive heat and moisture
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.

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11. TOXICOLOGICAL INFORMATION
PRODUCT TOXICITY DATA

LD₅₀ Oral: >2000 mg/kg (rat) estimated
LD₅₀ Dermal: >2000 mg/kg (rat) estimated
LC₅₀ Inhalation (Dust): No information available
LC₅₀ Inhalation (Vapor): No information available

ACUTE EFFECTS::

Eye Irritation Irritating to eyes.
Skin Irritation Irritating to skin.
Inhalation None expected during normal conditions of use.
Ingestion 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
Citric acid	77-92-9	3000 mg/kg (Rat)		
Sodium 2-phenylpropane-2-sulfonate	28348-53-0	7000 mg/kg (Rat)		
Propane-1,2-diol	57-55-6	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	

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12. ECOLOGICAL INFORMATION**PRODUCT TOXICITY DATA****Ecotoxicity effects****Aquatic toxicity:** No information available**COMPONENT TOXICITY DATA***Citric acid*

77-92-9 (15 - 30 %)

Water Flea h EC50 72 120 mg/L*Sodium 2-phenylpropane-2-sulfonate*

28348-53-0 (< 2.5 %)

Freshwater Algae h EC50 72 >1000 mg/L**Water Flea** h EC50 24 >1000 mg/L*Propane-1,2-diol*

57-55-6 (< 2.5 %)

Freshwater Algae h EC50 96 19000 mg/L**Water Flea** h EC50 24 >10000 mg/L

h EC50 48 >1000 mg/L

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

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

15. REGULATORY INFORMATION

Chemical Name	PICCS	TSCA	DSL	NDSL	ENCS	CHINA	AICS	ENECS/ ELINCS	South Africa STELs
Citric acid	Present	Present	X		X	X	X	201-069-1	
Sodium 2-phenylpropane-2-sulfonate	Present	Present	X			X	X	248-983-7	
Propane-1,2-diol	Present	Present	X		X	X	X	200-338-0	

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U.S. Regulations:

Citric acid - 77-92-9

NJRTK	Not Listed.
Appearance	White or Colorless, crystalline solid
SARA313	None
California Prop. 65	Not Listed

Sodium 2-phenylpropane-2-sulfonate - 28348-53-0

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

Propane-1,2-diol - 57-55-6

NJRTK	X
Appearance	Clear, viscous, Colorless 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
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Flammability:	0
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Physical hazards	0
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PERSONAL PROTECTION	B
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Reason for revision:

Update or revision of the PSDS.

Additional advice:

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

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