

Zep Manufacturing Co. of Canada 11627 178th Street Edmonton, Alberta T5S 1N6 1-800-I-BUY-ZEP

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification					
Product name		RING MASTER			
Product Use		General Purpose Cleaner For Bathroom			
Product Code		1846			
Date of issue		05/18/07	Supersedes12/28/04		
Emergency Telephone Numbers For a M CANUT		nufacturing of ne: (780) 453	roup f Canada -8100 (Business Hours 8:00-5:00) ansportation Emergency: s)		
Prepared by	Zep Mar 11627 17	al Services G aufacturing C 78th Street on, Alberta T:	o. of Canada		

Printing date: 18/05/07

Date of Preparation : 05/18/07

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Toxicity Data			
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic	27176-87-0	10 - 30	LD50	Rat	Oral	2140 mg/kg
acid			LC50	Rat	Inhalation	510 mg/m ³ (2
						hour(s))
			LC50	Mouse	Inhalation	320 mg/m ³ (2
				_		hour(s))
PHOSPHORIC ACID	7664-38-2	10 - 30	LD50	Rat.	Oral	4400 mg/kg
			LD50	Rabbit.	Dermal	>3160 mg/kg
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	7 - 13	LD50	Rat	Oral	4700 mg/kg
			LD50	Rabbit	Dermal	13000 mg/kg
			LC50	Rat (Male)	Inhalation	22500 ppm (8
						hour(s))
			LC50	Rat	Inhalation	19000 ppm (8
				(Female)		hour(s))
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npt	9016-45-9	5 - 10	LD50	Rat	Oral	3310 mg/kg
poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy			LD50	Rabbit	Dermal	2000 mg/kg
HYDROCHLORIC ACID; muriatic acid; hydrogen chlorid	7647-01-0	5 - 10	LD50	Rabbit	Oral	900 mg/kg
			LC50	Rat	Inhalation	3124 ppm (1
						hour(s))

Section 3. Hazards Identification

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Acute Effe	cts Routes of EntryInhalation Skin contact Eye contact.					
Skin	Hazardous in case of skin contact (corrosive). Skin contact may produce burns. Medical Conditions Aggravated by Overexposure: Skin					
Eyes	Hazardous in case of eye contact (corrosive). Eye exposure may cause severe and permanent eye injury (blindness Medical Conditions Aggravated by Overexposure: Eye					
Inhalation	n Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Medical Conditions Aggravated by Overexposure: Respiratory					
Ingestion	Ingestion may cause severe gastric disturbances. May cause burns to mouth, throat and stomach. May be fatal if swallowed.					
Chronic Eff	irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Additional information : See Toxicological Information (section 11)					
Section 4. F	First Aid Measures					
Eye Conta	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.					
Skin Conta	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.					
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.					
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.					

Product Code 1846	Material S	afety Data Sheet	Product Name RING MASTER			
Section 5. Fire Fighting Flash Point Clo	g Measures osed cup: 41°C (105.8°F).(Tagliał	aue) F	ammable LimitsNot determined			
	roid contact with strong oxidizers.					
Auto-ignition Temper		, excessive neut, i	purks of open nume.			
Fire-Fighting Procedu		clothing and posi-	itive pressure, self-contained breathing apparatus.			
Fire Hazard	Cool closed containers exposed t					
	ion May emit toxic fumes under Not available.	r fire conditions.				
Section 6. Accidental I						
an inert contami	dry material and place in an appr nated by this material, use deterg	opriate waste disgent. Finish clear	tion 8). Dilute with water and mop up, or absorb with posal container. To clean the floor and all objects hing by spreading water on the contaminated surface and			
^	of according to local and regional	l authority require	ements.			
Section 7. Handling an		ing Avoid has	this was as a may miste. Weah contaminated			
	ng before reusing.	ling. Avoid brea	thing vapors or spray mists. Wash contaminated			
Storage Keep	container tightly closed and seale	tainer tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. ay from incompatibles. Store between 4 - 49 C. Keep out of the reach of children.				
*	ontrols, Personal Protection		1			
Engineering Controls	Provide exhaust ventilation or	ional exposure lin	controls to keep the airborne concentrations of vapors nits. Ensure that eyewash stations and safety showers			
Personal Protection Eyes Splash gog	•		Protective Clothing (Pictograms)			
• • • •	prene gloves. Nitrile gloves. Rub	ber glove				
•		•	r other engineering controls to keep the airborne			
	ions of vapors below their respec					
Exposure Limits		_				
•	lazardous Ingredients	CAS #	Exposure Limits			
Dodecylbenzene sulfonic acid		27176-87-0	ACGIH / OSHA (United States). TWA: 1 mg/m ³ 8 hour(s).			
			ACGIH TLV (United States).			
Phosphoric Acid		7664-38-2	STEL: 3 mg/m ³ 15 minute(s). ACGIH / OSHA (United States).			
nosphore red		7004-30-2	TWA: $1 \text{ mg/m}^3 8 \text{ hour}(s)$.			
			ACGIH TLV (United States). STEL: 3 mg/m ³ 15 minute(s).			
Isopropyl Alcohol		67-63-0	ACGIH TLV (United States).			
			TWA: 200 ppm 8 hour(s). OSHA PEL (United States).			
			TWA: 400 ppm 8 hour(s).			
			ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).			
Hydrochloric Acic		7647-01-0	ACGIH TLV/OSHA PEL (United States).			
			CEIL: 5 ppm 8 hour(s). OSHA PEL (United States).			
Consult local authorities fo	r acceptable exposure limits.		CEIL: 7 mg/m ³ 8 hour(s).			
Physical State Liquic	d Chemical Properties		Color Green.			
pH <1	(Iminquiu)		Odor Wintergreen.			
	4°C (202°F)		Vapor Pressure Not determined			
Freezing Point			Vapor Density Not determined			
Specific Gravity 1.16 (Water = 1)		vaporation RateNot determined			
Solubility Easily	soluble in cold water, hot water.	V	DC (Consumer)12.2%			
Section 10. Stability ar						
Stability and Reactivi						
Incompatibility	Reactive with oxidizing ag	gents, alkalis.				
Reactivity	Will not occur.					

Hazardous Decomposition Products May emit toxic fumes under fire conditions.

Product Code 184	Product Code 1846		Material Safety Data Sheet		Product Name RING MASTER		
Section 11. Toxic	cological	Information					
Classified 1 (Proven for human.) by IARC, + (Proven.) by OSHA [Dodecyl Benzene Sulfonic Acid].							
Reproductive E	ductive Effects NO known EFFECT according to our database						
Mutagenic Effects NO known EFFECT according to our database							
Teratogenic Effe	eratogenic Effects NO known EFFECT according to our database						
Section 12. Ecol	ogical Inf	ormation					
Ecotoxicity	-	ot available.					
Biodegradable/	OECD N	ot available.					
Section 14. Tran Regulatory Information	author	Proper shipping	r regional Class	Packing Group	Label	Additional information	
TDG Classification	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Hydrochloric Acid)	8	11		Explosive Limit and Limited Quantity Index 1	
Limited Quantity:	Small quar	ntities of controlled goods	are not regula	ated as Dangerous	Goods accordin	g to the TDG regulations.	
Section 15. Regu	latory Inf	ormation					
WHMIS (Canad	a)	Class B-3: Combustible lic Class D-1A: Material caus Class E: Corrosive liquid.					

Other Regulations Not applicable

This product has been classifed according to the hazard criteria of the CPR and the MSDS contains all of the available information required by the CPR.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with cautie

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exis