Material Safety Data Sheet							
Zep, Inc. 1210 Seebeard Industrial Rhyd							
Atlant Atlant		10 Seaboard Industrial Blvd. lanta, GA 30318	Product name CITRUS CI		LEANER		
Superior Solutions	I-8//-I-BU www.zep.c	JY-ZEP (428-9937) om	Product use	Cleaner. Degre	aser		
Superior Solutions			Product code	0455			
			Date of issue	11/02/09	Supersedes	04/27/07	
			Emergency Telepho	ne Numbers			
			For MSDS Informat Compliance Services	ion:	(428-9937)		
			For Medical Emerge (877) 541-2016 Toll F		orded		
			For Transportation CHEMTREC: (800) In the District of Colu	424-9300 - All Call			
Printing	g date: 12	/21/09	Prepared By Compliance Service 1420 Seaboard Indu Atlanta, GA 30318	ustrial Blvd.			
Section 2.	Hazards	Identification					
Emergency			*Hazard Determination Sys	tem (HDS): Health, Flamma	bility, Reactivity		
WARNING	<u>}</u> !			1 2	0		
COMBUSTI	-	USES EYE IRRITATIO	N. MAY CAUSE				
			red in the original shipping o	container(s). Risk of	adverse effects ar	e lessened by following all	
			proper personal protective e				
Acute Effects		Routes of Entry	Dermal contact. Eye co n of the eye is characterize		ing and itahing		
Eyes Skin		•	lammation is characterized	•			
		se skin sensitization.			"		
	irritatior	l.	nists. Over-exposure by in		respiratory		
Ingestion	May be	harmful if swallowed. Car	n cause gastrointestinal dis	turbances.			
Chronic effe	<u>cts</u>	frequent attacks of brone produce chronic eye irrit	exposure to spray mist may chial infection. Repeated o tation and severe skin irrita organs: blood, kidneys, lu	or prolonged contact ation. Contains mate	with spray or mi	st may	
Carcinogeni No known sig		ffects or critical hazards.		-			
Product/ing	redient r	name					
Not available.							
		Additional Infor	mation: See Toxicological I	nformation (Section 1	1)		
		ition/Information on In	gredients				
Name of Hazaro					CAS number	<u>% by Weight</u>	
D-LIMONEN (R)-	E; orange	distillate; citrus terpene; c	cyclohexene, 1-methyl-4-(1-methylethenyl)-,	5989-27-5	1 - 5	
MONOETHA		INE; 2-aminoethanol; ME	А		141-43-5	1 - 5	
SODIUM XYLENE SULFONATE					1300-72-7	1 - 5	
DIETHYLENE GLYCOL MONOBUTYL ETHER ALPHA OLEFIN SULFONATE; SODIUM SALT				2-(2-butoxyethoxy)-ethanol; butyl carbitol 112-34-5 1 - 5 sulfonic acids; c14-18 alkane and c12-20 68439-57-6 1 - 5			
		/droxy; sodium salts	1, suitoine actus, c14-18		00437-37-0	1-5	
C12-C16 ETH	OXYLA	TED ALCOHOLS			68551-12-2	<3	
TALL OIL FA	ATTY AC	IDS; fatty acids, tall oil			61790-12-3	<3	

Product code 0	455	Material Safety Data S	Product Name CITRUS CLEANER		
Section 4. Firs	t Aid Measures				
Eye Contact			ly flush eyes with plenty of water for at least 1 medical attention immediately.	5 minutes,	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.				
Inhalation Ingestion		Do not induce vomiting ty of water to drink. N	s, get medical attention. unless directed to do so by medical personnel. ever give anything by mouth to an unconscious		
Section 5. Fire	Fighting Measures	Natio	al Fire Protection Association (U.S.A.)		
Flash Point	Closed cup: 51.11°C (124 [Tagliabue.]	4°F)	120		
Flammable Lim	its Not determined.		~		
Flammability	COMBUSTIBLE.				
Fire hazard	Combustible liquid. In a burst, with the risk of a st		ure increase will occur and the container may		
Fire-Fighting Procedures	Use dry chemical, CO ₂ , v	vater spray (fog) or foar	1.		
Section 6. Acc	idental Release Measures				
Spill Clean up	mop up if water-soluble. Al	ternatively, or if water-i ontainer. Use spark-pro	sk. Move containers from spill area. Dilute w asoluble, absorb with an inert dry material and of tools and explosion-proof equipment. Dispo	place in an	
Section 7. Han	dling and Storage				
O. W	r any other ignition source. Av ith adequate ventilation. Do n	roid contact with eyes, s ot ingest. Empty contai	ction 8). Store and use away from heat, spark kin and clothing. Avoid breathing vapor or mi hers retain product residue and can be hazardou this product only as specified on the label.	st. Use only	
W C	ell-ventilated area, away from osed and sealed until ready for	incompatible materials use. Containers that ha	inal container protected from direct sunlight in see section 10) and food and drink. Keep con ve been opened must be carefully resealed and Keep out of the reach of children.	tainer tightly	
Section 8. Exp	osure Controls/Personal F	Protection			
Product name		Exposure lim	t <u>s</u>		
	MINE; 2-aminoethanol; MEA		H TLV (United States). r(s). iited States).		
DIETHYLENE GLY butoxyethoxy)-ethano	COL MONOBUTYL ETHER; 2-(2-)l; butyl carbitol	Manufacturer (Uni TWA: 35 ppm 8 ho	ted States).		
Personal Prote	ective Equipment (PPE)				
	Safety glasses.				
	Recommended: Neoprene glov	-	-		
	Use with adequate ventilation. controls to keep the airborne co appropriate respirator when ve	oncentrations of below			
Section 9. Phy	sical and Chemical Prope	rties			
Physical State	Thin liquid		Color Clear. Orange.		
рН	11 to 12		Odor Citrus	TT \	
Boiling Point	Not determined. 1.01		Vapor Pressure 0.004 kPa (0.03 mm	Hg)	
Specific Gravit Solubility	Soluble in the following ma hot water.	aterials: cold water and	Vapor Density Not determined. Evaporation Rate 1 (Water = 1)		
			VOC (Consumer)		

VOC (Consumer)

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Section 10. Stability and Rea	activity					
Stability and Reactivity	The product is stable.					
ncompatibility	Keep away from heat, sparks and flame. Reactive or incompatible with the following material oxidizing materials.Slightly reactive or incompatible with the following materials: acids.					
lazardous Polymerization	Under normal conditions of storag	e and use haza	rdous polymerization	will not occur		
•	Under normal conditions of storag	· · ·	rdous polymerization	will not occur.		
•	Under normal conditions of storag roducts carbon oxides (CO, CO	· · ·	rdous polymerization	will not occur.		
lazardous Decomposition P	roducts carbon oxides (CO, CO	· · ·	rdous polymerization	will not occur.		
Azardous Decomposition P Section 11. Toxicological Int	roducts carbon oxides (CO, CO	· · ·	rdous polymerization	will not occur.		
lazardous Decomposition P	roducts carbon oxides (CO, CO	· · ·	rdous polymerization v	Exposure		
lazardous Decomposition P Section 11. Toxicological Int Acute Toxicity	roducts carbon oxides (CO, CO	2)				
Hazardous Decomposition P Section 11. Toxicological Int Acute Toxicity Product/ingredient name	roducts carbon oxides (CO, CO formation Result	2) Species	Dose			
Hazardous Decomposition P Section 11. Toxicological Int Acute Toxicity Product/ingredient name	formation Result LD50 Dermal	2) Species Rabbit	Dose >1000 mg/kg			
Azardous Decomposition P Section 11. Toxicological Int Acute Toxicity Product/ingredient name Monoethanolamine	roducts carbon oxides (CO, CO formation Result LD50 Dermal LD50 Oral	2) Species Rabbit Rat	Dose >1000 mg/kg 1720 mg/kg			
Azardous Decomposition P Section 11. Toxicological Int Acute Toxicity Product/ingredient name Monoethanolamine	roducts carbon oxides (CO, CO formation Result LD50 Dermal LD50 Oral LD50 Dermal	2) Species Rabbit Rat Rabbit	Dose >1000 mg/kg 1720 mg/kg 2700 mg/kg			

Section 12. Ecological Information

Environmental Effects Aquatic Ecotoxicity

Not available.

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001

Classification: - [Hazardous waste.] Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not applicable.	Not applicable.	-	I	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Product name

Diethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Product code 0455

Material Safety Data Sheet

Product Name CITRUS CLEANER

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 caution.

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

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.