

ZEP Manufacturing Company Acuity Specialty Products Group, Inc. P.O. Box 2015 Atlanta, GA 30301 1-877-I-BUY-ZEP (428-9937) www.zep.com

## **Material Safety Data Sheet**

and Safe Handling and Disposal Information

8	Atlanta, GA 30301 1-877-I-BUY-ZEP (428-9937)	and Safe Handling and Disposal Information					
	www.zep.com	Telephone Ac	ZEP EL	EC II PLUS lectrical Contact ( Supersention: ducts Group, Inc.	Cleaner r <b>des</b>		
Printing date: 01/09/06		For Medical Emergency INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded For a Transportation Emergency CHEMTREC: (800) 424-9300 - All Calls Recorded In the District of Columbia (202) 483-7616					
		Prepared by Compliance Services Group Acuity Specialty Products Group 1420 Seaboard Industrial Blvd. Atlanta, GA 30318					
	Composition, Information on Ingra	edients CAS #	9/ by Woight	l Expo	uro Limito		
-	rdous Ingredients AFLUOROETHANE; hfc-134a	811-97-2	% by Weight 50 - 60	Exposure Limits           AIHA WEEL (United States).			
1,2-DICHLOROETHYLENE (trans); trans-DCE 1,1,1,2,2,3,4,5,5,5 - DECAFLUOROPENTANE; hfc-43-10 mee			20 - 30 5 - 15	TWA: 1000 ppm 8 hour(s). ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). Not established			
	TAFLUOROBUTANE; hfc-365mfc	406-58-6	1 - 10	Not established			
	lazards Identification				HMIS Health	1	
Acute Effec Skin	Hazardous in case of skin contact (irr characterized by itching, scaling, or re	eddening. Harmful	irritation. Skin inf l if absorbed throu	lammation is gh the skin.	Fire Hazard Reactivity Personal Protection	0 1	
Eyes	Hazardous in case of eye contact (irrit redness, watering, and itching, lacrim		on of the eye is cha	tracterized by	Personal Protection	В	
Inhalation Hazardous in case of inhalation. Can cause central nervous system depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. May cause heart beat irregularity (arrythmia). In confined spaces, the gas can cause asphyxiation.							
	Harmful if swallowed. Ingestion may effects. S data pertains to the product as delivered prescribed safety precautions, including u	d in the original shipp	oing container(s). R	isk of adverse heal	th effects are lessened	by	
Carcinoger Chronic Eff	fects Overexposure of this depression resulting i and cause irritation.	product by inhalati n headache, nausea The substance may	on or absorption ca and/or dizziness. I be toxic to liver, he	an produce centra Prolonged or repe eart, upper respira	l nervous system ated contact may dry s tory tract, central nerv	vous	

## Section 4. First Aid Measures

Section 4. Filst Alu	ineasures		
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15		
	minutes, keeping eyelids open. Get medical attention.		
Skin Contact	Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. Get medical attention.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Ingestion	Aspiration hazard if swallowed- can enter lungs and cause damage. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.		

See Toxicological Information (section 11)

system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Product Code	0283	Mate	rial Safety Data She	Product Name ZEP ELEC II PLUS
Section 5. Fire				
Flash Point		pplicable.	Flammabl	e Limits Not applicable.
Flammability		flammable. (CSMA)		
Fire Hazard	•	emit toxic fumes under fire		•
Fire-Fighting	Procedure			(fog), foam or dry chemicals. Wear special
		apparatus.	lothing and positiv	e pressure, self-contained breathing
Section 6. Acc Spill Clean u		<b>lease Measures</b> spills are unlikely due to pa	nckaoino	
Section 7. Ha			ionuging.	
Handling	-	-	open flame, or any	other ignition source. When heated it emits toxics fum
				hing vapors or spray mists. Use only with adequate
	ventilation.	Wash thoroughly after har	dling. Wash conta	minated clothing before reusing.
Storage				y from heat and direct sunlight. Do not store above 49°
	(120°F). Ke	ep away from incompatibl	es. Do not punctur	e or incinerate. Keep out of the reach of children.
Section 8. Exp	oosure Con	trols, Personal Protect		Desta stice Obstices (Distance
Eyes S	Safety glasses	Personal Protectio	n	Protective Clothing (Pictogram
-	Nitrile gloves			
•	U		exhaust ventilation	or other engineering controls to keep the airborne
с				mit value. Wear appropriate respirator when ventilatio
	<u> </u>	Chemical Properties		
Physical State		uid (Aerosol.)		Color Clear. Colorless.
pH	Not app			Odor Ethereal.
Boiling Point		5°F) - Initial		Vapor Pressure 220 mmHg @ 70F
Specific Grav		,		Vapor Density Not available.
Solubility	-	ghtly soluble in cold water,	hot water.	Evaporation Rate >1 compared to Butyl acetate. VOC (Consumer) Federal: 22.8% 2.4lb/gal 282g/ Cal/OTC: 45.0% 4.65lb/gal 55
Section 10. St	ability and	Poactivity		Cal/01C. +5.0% +.0510/gai 55
Stability and		The product is stable.		
Incompatibili		Reactive with oxidizi		acids, alkalis,
Hazardous Po				
Hazardous De				ydrogen Fluoride (HF), carbon oxides (CO, CO <sub>2</sub> ), and
Section 11. To	xicologica			
Toxicity to Ar	-	1,2-DICHLOROETI	HYLENE (trans);	trans-DCE:
-		ORAL (LD50):	Acute: 1275 m	g/kg [Rat].
		DERMAL (LD50):	Acute: >2000 r	• •
		VAPOR (LC50):		pm 4 hour(s) [Rat].
		<b>1,1,1,2,2,3,4,5,5,5-De</b> DERMAL (LD50):	cafluoropentane: Acute: >2000 r	ag/kg [Bat]
		VAPOR (LC50):		pm 4 hour(s) [Rat].
		<b>1,1,1,3,3-pentafluor</b>		pin 4 nou(s) [Kat].
		DERMAL (LD50):	Acute: >2000 r	ng/kg [Rat].
Section 12. Ec	cological In	· /		
Ecotoxicity		Not available.		
Biodegradab	e/OECD	Not available.		
Section 13. D		nsiderations		
Waste			dance with federal	Waste Stream Code: - (Not applicable.)
Information		local environmental contr		Classification: - (Non-hazardous w
		nal authorities.		

Material Safety Data Sheet

## Section 14. Transport Information Proper shipping name Consumer Commodity DOT Classification ORM-D UN number 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. Section 15. Regulatory Information U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting: No products were found. No products were found. Clean Water Act (CWA) 311: 1,2-Dichloroethylene (trans) Clean Water Act (CWA) 311: 1,2-Dichloroethylene (trans)

	All Components of this product are listed or exempt from listing on TSCA inventory.
State Regulations	California prop. 65: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

## 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.