			Saf	ety Dat	a Sh	neet				
	Zep, Inc.		S	Section 1. Ch	emical l	Product and	Compa	any Identific	ation	
1310 Seaboard Industrial Blvd. Atlanta, GA 30318			P	roduct name		ZEP 45				
1-877-I-BUY-ZEP (428-9937) www.zep.com		P	roduct use		Aerosol Lubr	icant				
Superior Solutions			P	roduct code		0174				
			D	ate of issue		09/16/11	Sup	ersedes 03/2	19/09	
			Em	ergency Tele	phone	Numbers				
				or MSDS Info						
			C	ompliance Serv	vices 1-87	77-I-BUY-ZEI	P (428-9)	937)		
				For Medical Emergency (877) 541-2016 Toll Free - All Calls Recorded						
			C	or Transporta HEMTREC: (3 the District of	800) 424	-9300 - All Ca		rded		
				repared By		. ,				
Printing date: 09/16/11			Compliance S 1420 Seaboard Atlanta, GA	l Industri	al Blvd.					
				Atlanta, OA .	0510					
Section 2. I		Identification		*Hazard Determinat	ion System (HDS): Health, Flamr	nability Pos	ectivity		
WARNING					ion oystem (2 1				
TRACT IRR	TATION	CAUSES EYE, SK . HARMFUL IF INI ONTENTS UNDEF	HALED OR	ABSORBED				<u>_</u>		
prescribed saf	ety precau	ins to the product as tions, including the u	ise of proper	personal protect	tive equip	oment.	of advers	e effects are le	ssened by follow	wing all
Acute Effects Eyes		Routes of Entr eye irritation. Inflam	-	rmal contact. E	•		ering an	d itching		
Skin	Causes s	kin irritation. Skin i ally, blistering.					-	-		
Inhalation	irritation	halation of vapor, s . Can cause central e, dizziness, fatigue, usness.	nervous syst	tem (CNS) dep	ression. S	Symptoms and	l signs in	clude		
Ingestion	Aspiratio	on hazard if swallow	ved. Can ent	er lungs and ca	use dama	ige.				
Chronic effe	<u>cts</u>	Repeated or prolor peripheral nervous Prolonged skin co	s system, ki	dneys, liver an	d heart.	May cause hea	aring imp	pairment or ch		
	ene: Class	sified + (Proven) by sonably Anticipated					n)			
Product/ing	redient n	ame	ACGIH	IARC	EPA	NIO	SH	NTP	OSHA	
Trichloroethyl Tetrachloroeth			-	2A 2A	-	-		Possible Possible	+	
- en activitor to etti	., 10110	Additiona	I Information	: See Toxicolog	ical Infor	mation (Section	n 11)			
Section 3. C	Composi	tion/Information	on Inaredi	ents]	-	-			
Name of Hazard	-]		CAS n	umber	<u>% by Weight</u>	
		NE; acetylene trich				e	79-01	-6	40 - 50	
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate						2-52-5	15 - 25			
MINERAL SEAL OIL; mineral oil; petrolatum TETRACHLOROETHYLENE; perchloroethylene; perc; carb				: carbon bichle	oride		6474 127-1	1-44-2 8-4	5 - 15 1 - 10	
Calcium alkylnaphthalenesulfonate			iny ione, pere	, carbon bicili				ietary	1 - 10	
DIETHYLENE GLYCOL MONOBUTYL ETHER							ol 112-3	34-5	1 - 10	
PRIMARY AMYL ACETATE, MIXED ISOMER METHYL BUTYL ACETATE			OMERS: 3-	METHYL BU	TYL AC	ETATE; 2-		02-2: 628-63-7	7 <5	
CARBON DI		DIAIE					& 62- 124-3	4-41-9 38-9	<5	
							1272		~~	

Product code 0	174 Material Sa	fety Data Sheet	Product Name ZEP 45			
Section 4. Firs	t Aid Measures					
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention immediately.					
Skin Contact	Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.					
Inhalation	Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.					
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, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.					
Section 5. Fire	Fighting Measures	National Fire Prote	ction Association (U.S.A.)			
Flash Point	Not applicable.		2 0			
Flammable Lim	its Not applicable.					
Flammability	Non-flammable. (CSMA)					
Fire hazard	CONTENTS UNDER PRESSURE. Co when heated. Vapors may accumulate to a source of ignition and flash back.					
Fire-Fighting Procedures						
Section 6. Acc	idental Release Measures					
Spill Clean up	Large spills are unlikely due to packaging	•				
Section 7. Han	dling and Storage					
	Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do no breathe vapor or mist. Use only with adequate ventilation. Watch for accumulation in low confined areas.					
1	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep away from heat, sparks and flame. Do not puncture or incinerate container. Do not store above the following temperature: 49°C (120.2°F). Keep out of the reach of children.					
Section 8. Exp	osure Controls/Personal Protection					
Product name	Expo	sure limits				

Product name	Exposure limits
TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2- dichloroethylene	ACGIH TLV (United States). TWA: 10 ppm 8 hour(s). STEL: 25 ppm 15 minute(s). OSHA PEL (United States). TWA: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s).
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	OSHA PEL (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist NIOSH REL (United States, 6/2009). TWA: 5 mg/m ³ 10 hour(s). Form: Mist STEL: 10 mg/m ³ 15 minute(s). Form: Mist
MINERAL SEAL OIL; mineral oil; petrolatum	OSHA PEL (United States). : 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). : 5 ppm 8 hour(s). Form: Mist
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). STEL: 100 ppm 15 minute(s).
PRIMARY AMYL ACETATE, MIXED ISOMERS: 3-METHYL BUTYL ACETATE; 2-METHYL BUTYL ACETATE	OSHA PEL (United States). TWA: 100 ppm 8 hour(s). ACGIH TLV (United States). TWA: 50 ppm 8 hour(s). STEL: 100 ppm 15 minute(s).
CARBON DIOXIDE	ACGIH TLV (United States). TWA: 5000 ppm 8 hour(s). STEL: 30000 ppm 15 minute(s).
Personal Protective Equipment (PPE)	

EyesRecommended: Safety glasses.BodyRecommended: Chemical-resistant gloves. Viton



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Product code 0174	Material Safety Da	ata Sheet P	Product Name ZEP 45				
Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.							
Section 9. Physical and Ch	emical Properties						
Physical State pHLiquid. [Ae Not availabBoiling Point87.22°C (18 1.137SolubilityInsoluble ir hot water.	Color Brown. Oily liquid. Odor Sweet. [Strong] Vapor Pressure Not available. Vapor Density Not available. er and Evaporation Rate <1 (Carbon tetrachloride = 1) VOC (Consumer) 50.0% or 568.5 g/l [ISO 11890-1]						
Section 10. Stability and Re	eactivity						
Stability and Reactivity Incompatibility Hazardous Polymerization Hazardous Decomposition I	The product is stable. Reactive or incompatible with the Under normal conditions of stora Products Carbon dioxide, carbon	ge and use, hazardous	polymerization wi	ill not occur.			
Section 11. Toxicological In	nformation						
Acute Toxicity							
Product/ingredient name	Result	Species	Dose	Exposure			
Trichloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-			
	LD50 Oral	Mouse	2402 mg/kg	-			
Distillates (netroloum) straight	LD50 Oral	Rat	4920 mg/kg	- 1 hours			
Distillates (petroleum), straight- run middle	LC50 Inhalation Vapor	Rat	1700 mg/m3	4 hours			
Tetrachloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-			
	LD50 Oral	Rat	2629 mg/kg	-			
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2700 mg/kg	-			
	LD50 Dermal	Rabbit	2700 mg/kg	-			
	LD50 Oral	Mouse	2400 mg/kg	-			
	LD50 Oral	Rat	4500 mg/kg	-			
	LD50 Oral	Rat	5660 mg/kg	-			
Section 12. Ecological Info	rmation						
Environmental Effects	Not available.						
Aquatic Ecotoxicity							
Product/ingredient name	Test	Result	Species	Exposure			
Diethylene glycol monobutyl ether	-	Acute LC50 2000000 ug/L Marine water		erside - 96 hours			
	-	Acute LC50 1300000 ug/L Fresh water		epomis 96 hours to 75			
Section 13. Disposal Consi	derations						

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: D040

Classification: - [Hazardous waste.] Origin: - [RCRA waste.] Product code 0174 Material Safety Data Sheet Product Name ZEP 45

 Section 14. Transport Information

 Regulatory information
 UN number
 Proper shipping name
 Classes
 PG*
 Label

 DOT Classification
 None.
 Consumer commodity ORM-D
 ORM-D
 Image: Classes
 Image: Classes
 <

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

Trichloroethylene Tetrachloroethylene Diethylene glycol monobutyl ether

Clean Water Act (CWA) 307: Trichloroethylene (RQ 100 lbs.)

Clean Water Act (CWA) 311: Trichloroethylene (RQ 100 lbs.)

Clean Air Act (CAA) 112 regulated toxic substances: Trichloroethylene; Tetrachloroethylene;

Diethylene glycol monobutyl ether

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

TSCA 8(a) IUR: Distillates (petroleum), hydrotreated heavy naphthenic; Distillates (petroleum), straight-run middle United States inventory (TSCA 8b): Not determined

United States inventory (TSCA 8b): Not determined.

State Regulations

California Prop 65

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Trichloroethylene; Tetrachloroethylene

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.