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		1.	PRODUC	T & COM	PANY	IDEI	NTIF	ICA	TIO	N					
1.1	Product Name:		UBBER™												
1.2	Chemical Name:	NA													
1.3	Synonyms:	33312													
1.4	Trade Names:	Gun Scrubber	™ Wipes												
1.5	Product Use:	Cleaner/Polish													
1.6	Distributor's Name:	Birchwood Casey, LLC													
1.7	Distributor's Address:		Drive, New Hop	e, MN., 55427	USA										
1.8	Emergency Phone:		1 (800) 424-9			87 or	Poiso	on Co	ntrol	Cente	er +1	(866)	291-7	152	
1.9	Business Phone / Fax:	+1 (952) 388-6		`	,										
			2. HA	AZARDS I	DENT	IFIC	ATIC)N							
2.1	Hazard Identification:	This product	is classified a	as a HAZARD	OUS SL	BSTAN	NCE b	out no	t as [DANG	EROU	IS GC	OODS	according t	to the
			criteria of NOH												
		DANGER! M	AY BE FATAL	IF SWALLOW	ED AND	ENTER	SAIR	WAYS	. COI	MBUS	TIBLE	E LIQU	JID.		
		Classification	: Asp. Tox. 1; F	lam. Liq. 4											
2.2	Label Elements:		ments (H): H30	4 – May be fata	al if swallo	wed ar	nd ente	ers airv	vays.	H227	– Con	nbustil	ble		
		liquid.													
			y Statements (F												
			container tightl												
			horoughly after doctor/physiciar											₹ ∠ ↓ _	>
			ke off immedia												
			- In case of fire:												
			up. P501 – Dis											•	
		disposal facil	ity.	•							•				
2.3	Other Warnings:	KEEP OUT C	OF REACH OF	CHILDREN.											
		3. C	OMPOSIT	ION & ING	REDI	ENT	INF	ORN	ΛAΤ	ION					
									EXPO	SURE L	IMITS II	N AIR (n	ng/m³)		
						AC	GIH		NOHSC			OSHA	4		
						pp	m		ppm			ppm	1		
СНЕМІ	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	. IDLH	OTHE	R
	RIETARY	NA	NA	NA	BAL	NA	NA	NF	NF	NF	NA	NA	NA		
			_									_			
	THA (PETROLEUM),	64742-48-9	NA	265-150-3	80-100	400	NA	NF	NF	NF	400	NA	(10)	OIL MIST	
	OTREATED HEAVY*		lam. Liq. 3; STOT	SE 3; H226, H30)4, H336										
^ < 3	% DIMETHYL SULFOXIDE	(DMSO) per IP34		FIDOT AU	 .	-									
				FIRST All											
4.1	First Aid:	Ingestion:	DO NOT IND												
			telephone num											f vomiting o	occurs
		_	spontaneously			,		,							
		Eyes:	If product gets												
			use, consult a	s) open to ensi					eyes c	n race	becor	ne sw	onen a	uring or rolle	owing
		Skin:		minated clothir					with s	nan ai	nd wa	ter If	f irritatio	nn nersists	seek
		OKIII.	prompt medica		•										
		Inhalation:	Remove victim						-					•	
				dical attention.								1.10.1		, g = c ru	
4.2	Effects of Exposure:	Ingestion:	Irritation to the									ng swa	allowinc	or vomiting	g and
			cause lung dar	0						3-		5			_
		Eyes:	Irritation upon	-	Symptom	s may i	include	e stingi	ng, tea	aring, ı	rednes	ss and	l swellir	ng.	
		Skin:	Mildly irritating	g. Prolonged o	or repeat	ed skir	n cont	tact ca	n res	ult in	defat	ting, d	drying	of the skin	with
			symptoms of re	edness, stingin	g. May be	absor	bed th	rough	the ski	in in ha	armful	amou	ints.		
	ì	1													
		Inhalation:	Inhalation may	cause irritation	n to the re	spirato	ry trac	t (nose	e, thro	at and	lungs).			



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		4. FIRST AID MEASURES – cont	´d	
4.3	Symptoms of Overexposure:	Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea.		
		Eyes: Overexposure in eyes may cause redness, itching and w	S .	
		Skin: Symptoms of skin overexposure may include redness, it can cause allergic skin reactions (e.g., rashes, welts, de		ne produ
		Inhalation: Inhalation of high vapor concentrations may cause cent headache, dizziness, disorientation.	ral nervous system effects, and symptom	s such a
.4	Acute Health Effects:	Non-irritating when used as directed. Moderate irritation to eyes concentrations of vapors can cause drowsiness, dizziness, headaches		nally, hi
.5	Chronic Health Effects:	None reported by the manufacturer.		
.6	Target Organs:	Eyes, Skin, Lungs, Liver, Kidney, CNS		_
.7	Medical Conditions Aggravated by Exposure:	Pre-existing skin, eye, respiratory, CNS, bone-marrow disorders, liver	HEALTH	1
	1.99	or kidney disease.	FLAMMABILITY	2
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	В
			EYES SKIN	
			ETEO ORM	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. This material will above the flash point temperature that can ignite when exposed to a s spaces, heated vapor can ignite with explosive force. Mists or spray below the flash point. Carbon dioxide, carbon monoxide, smoke, fun and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depe	source of ignition. In enclosed vs may burn at temperatures mes, unburned hydrocarbons	
5.2	Futinguishing Mathada.	use, low concentrations of hydrogen sulfide can be released.		
5.3	Extinguishing Methods: Firefighting Procedures:	Dry Chemical, Foam, Carbon Dioxide, and Water Fog. Keep containers cool until well after the fire is out. Fight fires as for		
		fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid		
		storage containers because of danger of boil-over. Prevent runoff fro entering sewers, drains, drinking water supply, or any natural waterway bunker gear including NIOSH-approved positive pressure self-contaprotect against potential hazardous combustion or decomposit deficiencies.	m fire control or dilution from ay. Firefighters must use full sined breathing apparatus to	
		entering sewers, drains, drinking water supply, or any natural waterwater bunker gear including NIOSH-approved positive pressure self-contaprotect against potential hazardous combustion or decomposit deficiencies.	om fire control or dilution from ay. Firefighters must use full ained breathing apparatus to tion products and oxygen	
6.1	Spills:	entering sewers, drains, drinking water supply, or any natural waterway bunker gear including NIOSH-approved positive pressure self-contar protect against potential hazardous combustion or decompositive deficiencies. 6. ACCIDENTAL RELEASE MEASU	m fire control or dilution from ay. Firefighters must use full ained breathing apparatus to tion products and oxygen	Protecti
6.1	Spills:	entering sewers, drains, drinking water supply, or any natural waterwater bunker gear including NIOSH-approved positive pressure self-contaprotect against potential hazardous combustion or decomposit deficiencies.	m fire control or dilution from ay. Firefighters must use full ained breathing apparatus to tion products and oxygen RES anup must wear appropriate Personal ield; use gloves and other protective clother and protective eyewear. Use a non-corolace into a container for later disposal. It is, alkalis) away from spill. Stay upwind a thorized personnel out of area. Wear agarrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-coroth and place in container for disposal according to the contain and collect spillage with non-coroth and place in container for disposal according to the container for disposal according to	mbustible and awa opropriation tainer ed areas obustible cording t
		entering sewers, drains, drinking water supply, or any natural waterway bunker gear including NIOSH-approved positive pressure self-contay protect against potential hazardous combustion or decomposite deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleate Equipment (PPE). Use safety glasses or safety goggles and face shi apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves inert material such as vermiculite or sand to soak up the product and part Large Spills: Keep incompatible materials (e.g., oxidizers, strong acid from spill or release. Isolate immediate hazard area and keep unauter protective equipment including respiratory protection as conditions was from spill area. Approach release from upwind. Prevent entry into sew Wash spillages into an effluent treatment plant or proceed as follows. absorbent material e.g. sand, earth, vermiculite or diatomaceous eard local regulations (see Section 13). Dispose of via a licensed was material may pose the same hazard as the spilled product.	m fire control or dilution from ay. Firefighters must use full ained breathing apparatus to tion products and oxygen RES anup must wear appropriate Personal field; use gloves and other protective clother and protective eyewear. Use a non-constact into a container for later disposal. It is, alkalis) away from spill. Stay upwind a thorized personnel out of area. Wear agarrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-contain and place in container for disposal accepted the disposal contractor. Contaminated a	hing (e.smbustible and awa propriet contained area anbustible cording absorbed
7.1	Spills: Work & Hygiene Practices:	entering sewers, drains, drinking water supply, or any natural waterway bunker gear including NIOSH-approved positive pressure self-contay protect against potential hazardous combustion or decomposite deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment (PPE). Use safety glasses or safety goggles and face shi apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves inert material such as vermiculite or sand to soak up the product and p Large Spills: Keep incompatible materials (e.g., oxidizers, strong acid from spill or release. Isolate immediate hazard area and keep unaut protective equipment including respiratory protection as conditions we from spill area. Approach release from upwind. Prevent entry into sew Wash spillages into an effluent treatment plant or proceed as follows. absorbent material e.g. sand, earth, vermiculite or diatomaceous earl local regulations (see Section 13). Dispose of via a licensed was material may pose the same hazard as the spilled product.	RES anup must wear appropriate Personal ield; use gloves and other protective clothon according to a container for later disposal. Stay, alkalis) away from spill. Stay upwind a thorized personnel out of area. Wear aparrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-cord than disposal contractor. Contaminated a this material is handled, stored and pking. Remove contaminated clothing and	mbustible and aware propriated area and used area anbustible cording absorbe
		entering sewers, drains, drinking water supply, or any natural waterway bunker gear including NIOSH-approved positive pressure self-contay protect against potential hazardous combustion or decomposite deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment (PPE). Use safety glasses or safety goggles and face shi apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves inert material such as vermiculite or sand to soak up the product and p Large Spills: Keep incompatible materials (e.g., oxidizers, strong acid from spill or release. Isolate immediate hazard area and keep unaut protective equipment including respiratory protection as conditions was from spill area. Approach release from upwind. Prevent entry into sew Wash spillages into an effluent treatment plant or proceed as follows, absorbent material e.g. sand, earth, vermiculite or diatomaceous earl local regulations (see Section 13). Dispose of via a licensed was material may pose the same hazard as the spilled product. 7. HANDLING & STORAGE INFORMA Eating, drinking and smoking should be prohibited in areas where Workers should wash hands and face before eating, drinking and smote equipment before entering eating areas. Do not ingest. Avoid contact	RES anup must wear appropriate Personal ield; use gloves and other protective clother into a container for later disposal. ds, alkalis) away from spill. Stay upwind atthorized personnel out of area. Wear aparrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-corth and place in container for disposal act disposal contractor. Contaminated atthorized personnel out of area. Wear aparrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-corth and place in container for disposal act te disposal contractor. Contaminated atthorized personnel out of area. Wear aparrant. Stop leak if without risk. Move covers, water courses, basements or confin Contain and collect spillage with non-corth and place in container for disposal act te disposal contractor. Contaminated atthorized personnel of the place of the pl	mbustible and away propria containe ed area mbustible cording absorbe errocesse protectining vap



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3.1	Exposure Limits:			GIH	RSON	NOHSC			OSHA		OTHER
	ppm (mg/m³)					ES-	ES-				O III LIK
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	400	NA	NF	NF	NF	400	NA	(10)	OIL MIST
.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) of exhaust ventilation to effectively product. Ensure appropriate dec Emissions from ventilation or work	remove contamin process	and prevation eq	ent builduuipment is ent should	ip of vap availab be check	oors or m le (e.g., s ed to ensi	ist generations ink, safe ure they o	ated fror ety show comply w	n the h er, eye ith the r	nandling of thi -wash station requirements of
		environmental protection legislation					ilters or e	ngineerin	ig modifi	cations	to the proces
3.3	Respiratory Protection:	equipment will be necessary to reduce emissions to acceptable levels. No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.									
3.4	Eye Protection:	Avoid eye contact. Safety glasses A protective face shield is also re under appropriate government star	s with sic	le shield: ded. Use	s must be e equipme	used whe	e protection				
8.5	Hand Protection:	Chemical-resistant gloves comply handling chemical products if a ri work gloves recommended under ≥ 1 gallon (3.8 L)), wear rubbe specified by the glove manufactur properties. It should be noted that different glove manufacturers. In t	ving with isk asses normal cr, nitrile er, check the time the case	an app ssment i onditions or impe during to brea of mixtu	roved star ndicates the of use. Wervious pla use that the kthrough f	ndard she his is ned hen hand stic glov ne gloves or any gl	ould be vocessary. Illing large es. Consi are still rove mate	Imperviou quantitie dering the etaining trial may be	us oil-res es of fluid ne paran their prot pe differe	eistant (e.g., neters ective ent for	
3.6	Body Protection:	time of the gloves cannot be accurately estimated. No apron required. Eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product (fluid), wash any exposed areas thoroughly with soap and water. Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove oil-contaminated clothing. Launder oil-contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded.									
		clothing. Launder oil-contaminate removed promptly and discarded.									
		removed promptly and discarded.	ed clothin	ng before	e reusing.	Contam	inated lea				
. 1	Apparance	removed promptly and discarded. 9. PHYSICAL	ed clothin	ng before	e reusing.	Contam	inated lea				
	Appearance:	9. PHYSICAL Clear liquid impregnated in cloth	ed clothin	ng before	e reusing.	Contam	inated lea				
.2	Odor:	9. PHYSICAL Clear liquid impregnated in cloth Essentially odorless	ed clothin	ng before	e reusing.	Contam	inated lea				
.2	Odor: Odor Threshold:	9. PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA	ed clothin	ng before	e reusing.	Contam	inated lea				
i.2 i.3	Odor: Odor Threshold: pH:	9. PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA	ed clothin	ng before	e reusing.	Contam	inated lea				
.3	Odor: Odor Threshold: pH: Melting Point/Freezing Point:	9. PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA	ed clothin	ng before	e reusing.	Contam	inated lea				
0.2 0.3 0.4 0.5	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F)	ed clothin	ng before	e reusing.	Contam	inated lea				
0.2 0.3 0.4 0.5 0.6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint:	9. PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA	ed clothin	ng before	e reusing.	Contam	inated lea				
.2 .3 .4 .5 .6	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F)	ed clothin	ng before	e reusing.	Contam	inated lea				
0.2 0.3 0.4 0.5 0.6 0.7	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint:	PHYSICAL Q. PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93]	ed clothin	ng before	e reusing.	Contam	inated lea				
.2 .3 .4 .5 .6 .7	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7	ed clothin	ng before	e reusing.	Contam	inated lea				
0.2 0.3 0.4 0.5 0.6 0.7 0.8	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C	& CH	ng before	e reusing.	Contam	inated lea				
.2 .3 .4 .5 .6 .7 .8 .9 .10	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa	& CH	ng before	e reusing.	Contam	inated lea				
.2 .3 .4 .5 .6 .7 .8 .9 .10	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga	& CH	ng before	e reusing.	Contam	inated lea				
.2 .3 .4 .5 .6 .7 .8 .9 .10 .11	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible	& CH	ng before	e reusing.	Contam	inated lea				
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1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.10 1.11 1.12 1.13 1.14	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F)	& CH	EMIC	AL PR	DPER	inated lea				
0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.10 0.11 0.12 0.13 0.14 0.15	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F) NA	& CH	EMIC	AL PR	DPER	inated lea				
0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 0.11 0.12 0.13 0.14 0.15	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F) NA 1.56 cSt (1.56 mm²/sec) at 40 °C Evaporation (n-butyl acetate=1) 0.6	& CHI	EMIC	AL PR(OPER 25 °C	inated lea				
9.2 9.3 9.4 9.5 9.6 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F) NA 1.56 cSt (1.56 mm²/sec) at 40 °C Evaporation (n-butyl acetate=1) 0.0	& CHI all) 2.02 cSt 09	EMIC	AL PRO	OPER 25 °C	inated lea				
9.2 9.2 9.3 9.4 9.5 9.6 9.7 9.10 9.11 9.12 9.14 9.15 9.16 9.17	Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F) NA 1.56 cSt (1.56 mm²/sec) at 40 °C Evaporation (n-butyl acetate=1) 0.0 10. STA	& CHI all clothir 2.02 cSt 09 BILIT	EMIC	M ² /sec) at	OPER 25 °C VITY s.	TIES				
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9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 9.16 9.17 9.	Odor: Odor: Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products:	PHYSICAL Clear liquid impregnated in cloth Essentially odorless NA NA NA 189 - 209 °C (372 - 408 °F) > 62 °C (> 144 °F) [ASTM D-93] EUL: 5.3 / LEL 0.7 0.041 kPa (0.31 mm Hg) @ 20 °C 5.6 @ 101 kPa 0.765 @ 15 °C (60 °F) (6.38 lbs/ga Negligible NA 335 °C (635 °F) NA 1.56 cSt (1.56 mm²/sec) at 40 °C Evaporation (n-butyl acetate=1) 0.0 10. STA	& CHI 2.02 cSt 09 BILITY al storage	EMIC	M ² /sec) at	OPER 25 °C VITY s.	TIES				



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11.1	T =			CAL INFORM		1	
	Routes of Entry:	Inhalation:	0	Absorption:		Ingestion: NO	
11.2	Toxicity Data:	available for some of the	he components of to (available from scient)	he product and is p ntific literature), the	presented below. E acute toxicity of this	ogy data, found in scientific literature, Based on animal test results for similar s product is expected to be:	
11.3	Acute Toxicity:	Mineral oil mists derive Effects from single and workplace exposure lev	ed from highly refir short-term repeate rels include lung infi involving exposure	led oils are reported exposures to high ammatory reaction, so to lower concentrations.	d to have low acu n concentrations of lipoid granuloma fo	te and sub-acute toxicities in animal mineral oil mists well above applicab rmation and lipoid pneumonia. In acu oil mists at or near current work place	
11.4	Chronic Toxicity:	Prolonged or repeated (dermatitis) or oil acne.	skin contact can	cause mild irritati	on and inflammati	on characterized by drying, cracking	
11.5	Suspected Carcinogen:		to cause cancer,			and Toluene, which are known to the arm. For more information, go	
11.6	Reproductive Toxicity:	This product is not repo	rted to produce rep	roductive toxicity in	humans.		
	Mutagenicity:	This product is not repo					
	Embryotoxicity:	This product is not repo		0			
	Teratogenicity:	This product is not repo					
	Reproductive Toxicity:	This product is not repo		•			
11.7	Irritancy of Product:	See Section 4.2	rea to cauco repre				
11.8	Biological Exposure Indices:	NE					
11.9	Physician Recommendations:	Treat symptomatically.					
		12	FCOLOGIC	AL INFORMA	ATION		
12.1	Environmental Stability:	1				source if anilled this product and or	
12.1	Environmental stability.	Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and all contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated will petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.					
12.2	Effects on Plants & Animals:	There are no specific of	data available for the	nis product. An env	vironmental fate an	alysis has not been conducted on the ects when coated with petroleum-base	
12.3	Effects on Aquatic Life:	cover a large surface a water. With time, if no	rea. As a result, this t removed, oxygen	oil layer might limit depletion in the w	or eliminate natura vaterway can resul	low-flowing waterways, an oil layer ca al atmospheric oxygen transport into the tin a loss of marine life or create a	
		anaerobic environment support marine life.	. Severe algae gro	viii can reduce oxyg		ater possibly below levels necessary	
		support marine life.		CONSIDERA		rater possibly below levels necessary	
13.1	Waste Disposal:	Review current local, st disposal method for the federal laws and regula be through by a license	DISPOSAL (ate and federal law ingredients listed i tions. Contact the add treatment, storage	CONSIDERA s, codes, statutes an Section 3. Any disappropriate agency to or disposal facility	TIONS nd regulations to deposal practice mustor specific information (TSDF).	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu	
13.1	Waste Disposal: Special Considerations:	Review current local, st disposal method for the federal laws and regula be through by a license	DISPOSAL (ate and federal law ingredients listed i tions. Contact the add treatment, storage	CONSIDERA s, codes, statutes an Section 3. Any disappropriate agency to or disposal facility	TIONS nd regulations to deposal practice mustor specific information (TSDF).	etermine current status and appropriat	
	·	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, sta requirements	DISPOSAL (iate and federal law ingredients listed i itions. Contact the a d treatment, storage te or provincial envi	consider A s, codes, statutes a n Section 3. Any dis appropriate agency to or disposal facility ronmental authority	TIONS nd regulations to deposal practice musfor specific information (TSDF). to determine suitab	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu	
13.2	·	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, sta requirements 14. TF	DISPOSAL (tate and federal law ingredients listed it itions. Contact the add treatment, storage te or provincial environment of the contact that it is a contact to the contact that it is a contact to the contact that it is a contact to the contact that is a contact to the contact that it is a contact	CONSIDERA s, codes, statutes a n Section 3. Any dis appropriate agency to or disposal facility ronmental authority TION INFOR GULATED PER 49	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable (TSDF) CFR §173.150(f)(2)	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	
13.2	Special Considerations:	13. Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, sta requirements	DISPOSAL (tate and federal law ingredients listed it itions. Contact the add treatment, storage te or provincial environment of the contact that it is a contact to the contact that it is a contact to the contact that it is a contact to the contact that is a contact to the contact that it is a contact	CONSIDERA s, codes, statutes a n Section 3. Any dis appropriate agency to or disposal facility ronmental authority TION INFOR GULATED PER 49	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable (TSDF) CFR §173.150(f)(2)	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	
13.2	Special Considerations: 49 CFR (GND):	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, sta requirements 14. TF NON-BULK PKG (VOL > 450 NOT REGULATED NON-BULK PKG (VOL	DISPOSAL (late and federal law ingredients listed in titions. Contact the additions. Contact the additions are dispersively to or provincial environments. RANSPORTA ≤ 450 L): NOT RE DL): UN1268, PETF	CONSIDERA s, codes, statutes a n Section 3. Any dis e or disposal facility ronmental authority TION INFOR GULATED PER 49 COLEUM DISTILLAT	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable CMATION CFR §173.150(f)(2) TES, N.O.S., 3, III	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	
13.2 14.1 14.2	Special Considerations: 49 CFR (GND): IATA (AIR):	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, sta requirements 14. TF NON-BULK PKG (VOL bulk PKG (VOL > 450 NOT REGULATED	DISPOSAL (late and federal law ingredients listed in titions. Contact the additions. Contact the additions are dispersively to or provincial environments. RANSPORTA ≤ 450 L): NOT RE DL): UN1268, PETF	CONSIDERA s, codes, statutes a n Section 3. Any dis e or disposal facility ronmental authority TION INFOR GULATED PER 49 COLEUM DISTILLAT	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable CMATION CFR §173.150(f)(2) TES, N.O.S., 3, III	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	
13.2 14.1 14.2 14.3	Special Considerations: 49 CFR (GND): IATA (AIR): IMDG (OCN):	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, starequirements 14. TF NON-BULK PKG (VOL > 450 NOT REGULATED NON-BULK PKG (VOL > 450 NOT-BULK PKG (VOL > 450 NOT-BULK PKG (VOL > 450 NOT-BULK PKG (VOL > 450 NON-BULK PKG (VOL > 450 NON-BULK PKG (VOL > 450 NON-BULK PKG (VOL > 450	DISPOSAL (late and federal law ingredients listed in titions. Contact the additions. Contact the additions are dispersively to or provincial environments. RANSPORTA ≤ 450 L): NOT RE DL): UN1268, PETF	CONSIDERA s, codes, statutes a n Section 3. Any dis e or disposal facility ronmental authority TION INFOR GULATED PER 49 COLEUM DISTILLAT	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable CMATION CFR §173.150(f)(2) TES, N.O.S., 3, III	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	
	Special Considerations: 49 CFR (GND): IATA (AIR): IMDG (OCN): TDGR (Canadian GND):	Review current local, st disposal method for the federal laws and regula be through by a license Contact the federal, starequirements 14. TF NON-BULK PKG (VOL > 450 NOT REGULATED NON-BULK PKG (VOL > 450 NOT REGULATED	DISPOSAL (late and federal law ingredients listed in titions. Contact the additions. Contact the additions are dispersively to or provincial environments. RANSPORTA ≤ 450 L): NOT RE DL): UN1268, PETF	CONSIDERA s, codes, statutes a n Section 3. Any dis e or disposal facility ronmental authority TION INFOR GULATED PER 49 COLEUM DISTILLAT	TIONS nd regulations to deposal practice mus for specific informat (TSDF). to determine suitable CMATION CFR §173.150(f)(2) TES, N.O.S., 3, III	etermine current status and appropriat t be in compliance with local, state, ar iion. Disposal of hazardous waste mu ility for recycling and or proper dispos	



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		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements.
15.2	SARA TPQ:	NA
15.3	TSCA Inventory Status:	NA NA
15.4	CERCLA Reportable Quantity:	NA
15.5	Other Federal Requirements:	Clean Water Act (CWA) 311: Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at +1 (800) 424-8802.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).
15.7	State Regulatory Information:	No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN) & Pennsylvania Right-to-Know List (PA). No other ingredients are found on the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov .
		16. OTHER INFORMATION
16.1	Other Information:	DANGER! MAY BE FATAL IS SWALLOWED AND ENTERS AIRWAYS. COMBUSTIBLE LIQUID. Keep away from flames and hot surfaces – no smoking. Keep container tightly closed. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, foam, carbon dioxide, or water spray (fog). Store locked up. KEEP OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Casey, LLC knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	Birchwood Casey,LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 10/25/2018

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

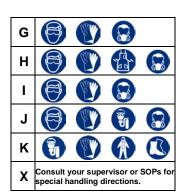
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Е			
F		TH.	





OTHER STANDARD ABBREVIATIONS:

rritant
Not Available
No Results
Not Determined
Not Established
Not Found
Self-Contained Breathing Apparatus
Sensitization
Specific Target Organ Toxicity – Repeat Exposure
Specific Target Organ Toxicity – Single Exposure
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition	Minimum temperature required to initiate combustion in air with no other source			
Temperature	of ignition			
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will			
	explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will			
	explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

0 Minimal Hazard		FLAMMABILITY			
1	Slight Hazard	\			
2	Moderate Hazard	REACTIVITY			
3	Severe Hazard				
4	Extreme Hazard				
ACD	Acidic				
ALK	Alkaline				
COR	Corrosive	/ X W Y			
₩ Use No Water		HEALTH			
OX	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTIONS			

TOXICOLOGICAL INFORMATION:

	1 1 1 5 (11 6 11 11 11 11 11 11 11 11 11 11 11 1			
LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	Concentration expressed in parts of material per million parts			
TD _{io}	Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TD _{Io} , LD _{Io} , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TCo, LCio, & LCo				
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TLm	Median threshold limit			
log Kow or log Koc	Coefficient of Oil/Water Distribution			

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	Canadian Priority Substances List			
TSCA	TSCA U.S. Toxic Substance Control Act			
EU	EU European Union (European Union Directive 67/548/EEC)			
WGK	/GK Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	®		②	Θ	(%)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

	®		\Diamond	N. C.		\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment