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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 3/14/2017

1.1	Product Name:		PRODUC		. / \	IDLI	4111	IUA						
			JCH LOW-	·voc										
.2	Chemical Name:	Petroleum Di												
.3	Synonyms: Trade Names:	811650, 8116 Dri-Touch Lo	,											
.4 .5	Product Use:		enetrate, Displac	Notor Prote	ot Surface	oc from	Corre	cion						
.6	Distributor's Name:				ci Suriaci	25 110111	COILC	151011						
.7	Distributor's Address:	Birchwood Laboratories LLC 7900 Fuller Road, Eden Prairie, MN 55344 USA												
.8	Emergency Phone:			•		997 0	Pois	on C	ontro	I Cont	lor 1	1 /055	\ 201 1	742
.9	Business Phone / Fax:	ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (855) 281-1742 +1 (952) 937-7900 / +1 (952) 937-7979												
		11 (332) 331	7300711 (332	.) 551-1515										
			2. HA	ZARDSI	DENT	IFIC	ATIC	N						
2.1	Hazard Identification:	[NOHSC: 108 DANGER! REACTION.	is classified as 88 (2004)] and A MAY BE FAT 1: Asp. 1; Sens.	ADG Code (Au AL IF SWAL	stralia).			•	_					
2	Label Elements:		ements (H): H30		tal if swall	owed a	and en	ters ai	rways.	H317	′ – Ma	ay caus	se	
		an allergic sk		,					,			•		
		Precautionar	ry Statements (P): P233 – K	eep conta	ainer ti	ahtly d	closed.	P28	0 – W	ear p	rotectiv	/e	
			protection. P30											
		doctor/physic	cian. P301 - D	o NOT induce	vomiting	P261	Avoid	d breat	thina r	nist/sp	ravs.	P272	_	
		Contaminate	ed work clothing	should not be	e allowed	out of	the w	vorkola	ice. F	2302+F	2352 -	- IF O	N	
			h with plenty of											
			ice/attention. F											
			contaminated											
			contaminated to											
						i - Dis	pose	or corr	terits/c	Ontain	ei to	licerise	35	
.3	Other Warnings:		orage and dispo	osai iacility (15										
	Other Warnings.	I In the event												
		in the event	of an exposure	or medical inc	uiry invol	ving thi	is proc	duct, pl	lease	contac	t a ph	ysiciar	or loca	al poison contr
		center, who n	of an exposure nay seek advice	or medical inc from the U.S.	uiry invol	ving thi urer, a	is prod nd sho	duct, plow ther	lease m this	contac SDS.	t a ph Keep	ysiciar out of	or loca	al poison contr of children.
		center, who n	of an exposure may seek advice	or medical inquire from the U.S.	uiry invol	ving thi urer, a	is prod nd sho	duct, plow ther	lease m this	contac SDS.	t a ph Keep	ysiciar out of	reach	al poison contr of children.
		center, who n	may seek advice	from the U.S.	uiry invol manufact	urer, a	nd sho	w ther	m this	SDS.	t a ph Keep	ysiciar out of	or loca reach	al poison contr of children.
		center, who n	of an exposure may seek advice	from the U.S.	uiry invol manufact	urer, a	nd sho	w ther	n this	SDS.	Keep	out of	reach	al poison contr of children.
		center, who n	may seek advice	from the U.S.	uiry invol manufact	ENT	INF	ORN	MAT EXPO	SDS. ION SURE L	Keep	out of	reach	al poison contr of children.
		center, who n	may seek advice	from the U.S.	uiry invol manufact	ENT	INF	ORN	MAT EXPO	SDS. ION SURE L	Keep	OUT OF	reach (al poison contr of children.
		center, who n	may seek advice	from the U.S.	uiry invol manufact	ENT	INF	ORN	MAT EXPO	SDS.	Keep	out of	reach (al poison contr of children.
IEMIC	CAL NAME(S)	center, who n	may seek advice	from the U.S.	uiry invol manufact	ENT	INF	ORN	MAT EXPO	SDS. ION SURE L	Keep	OUT OF	reach (al poison controf children.
	CAL NAME(S)	3. Co	OMPOSIT	ION & INC	quiry involumanufact	ENT ACC	INF	ORN Es-	MAT EXPO NOHSC ppm ES-	SDS. ION SURE L	Кеер	N AIR (m OSHA ppm	reach (of children.
	CAL NAME(S) E MINERAL OIL	CAS No. 8042-47-5	OMPOSIT RTECS No. PY8047000	From the U.S. ION & INC EINECS No.	uiry involomanufact	ENT ACC PP	INF GIH om STEL	ORN ES- TWA	MAT EXPO NOHSC ppm ES- STEL	SDS. SURE L ES- PEAK	IMITS II	N AIR (m OSHA ppm	reach (of children.
HITE	MINERAL OIL	CAS No. 8042-47-5 Asp. Tox. 1; I	RTECS No. PY8047000 H304, H226	EINECS No.	GREDI % 60-100	ENT ACC pp TLV (5)	INF GIH om STEL NA	ORN ES- TWA (5)	MAT EXPO NOHSC ppm ES- STEL NA	SDS. SURE L ES- PEAK NA	MITS II PEL (5)	N AIR (m OSHA ppm STEL (10) *	reach (ag/m³)	of children.
HITE		CAS No. 8042-47-5 Asp. Tox. 1; I 61789-86-4	RTECS No. PY8047000 H304, H226 NA	EINECS No. 232-455-8	uiry involomanufact	ENT ACC PP	INF GIH om STEL	ORN ES- TWA	MAT EXPO NOHSC ppm ES- STEL	SDS. SURE L ES- PEAK	IMITS II	N AIR (m OSHA ppm	reach (of children.
HITE	MINERAL OIL	CAS No. 8042-47-5 Asp. Tox. 1; I 61789-86-4	RTECS No. PY8047000 H304, H226	EINECS No. 232-455-8	GREDI % 60-100	ENT ACC pp TLV (5)	INF GIH om STEL NA	ORN ES- TWA (5)	MAT EXPO NOHSC ppm ES- STEL NA	SDS. SURE L ES- PEAK NA	MITS II PEL (5)	N AIR (m OSHA ppm STEL (10) *	reach (ag/m³)	of children.
LCIU	E MINERAL OIL UM SULFONATE	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317	EINECS No. 232-455-8 263-093-9 , H319 203-539-1	GREDI % 60-100	ENT ACC PPP TLV (5)	INF GIH STEL NA	ES-TWA (5)	MAT EXPO NOHSC ppm ES- STEL NA	SDS. ION SURE L ES-PEAK NA NF	PEL (5)	N AIR (m OSHA ppm STEL (10) *	ig/m³) A IDLH (2500) NA	of children.
LCI	MINERAL OIL UM SULFONATE YLENE GLYCOL	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000	EINECS No. 232-455-8 263-093-9 , H319 203-539-1	GREDI % 60-100	ENT ACC PPP TLV (5)	INF GIH STEL NA	ES-TWA (5)	MAT EXPO NOHSC ppm ES- STEL NA	SDS. ION SURE L ES-PEAK NA NF	PEL (5)	N AIR (m OSHA ppm STEL (10) *	ig/m³) A IDLH (2500) NA	of children.
LCI	MINERAL OIL UM SULFONATE YLENE GLYCOL	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336	% 60-100	ENT ACC PPP TLV (5) NA	INF GIH STEL NA NA 150	ES- TWA (5)	MAT EXPO NOHSC ppm ES- STEL NA	SDS. ION SURE L ES-PEAK NA NF	PEL (5)	N AIR (m OSHA ppm STEL (10) *	ig/m³) A IDLH (2500) NA	of children.
HITE ALCII ROPY ONO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; 1	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336	GREDI % 60-100 1-5 D MEA	ENT ACC PP TLV (5) NA 100	INF GIH STEL NA NA 150	ES-TWA (5) NF	MAT EXPO NOHSC ppm ES- STEL NA NF	SDS. ION SURE L ES-PEAK NA NF	PEL (5) NA 100	N AIR (m OSHA ppm STEL (10) *	ig/m³) A IDLH (2500) NA	OTHER * NIOSH
HITE ALCIU	MINERAL OIL UM SULFONATE YLENE GLYCOL	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; H	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 FIRST AI E VOMITING.	GREDI % 60-100 1-5 D MEA Contact :	ENT ACC PP TLV (5) NA 100 ASUF Safety(C)	INF GIH STEL NA NA 150 RES Call +1	ES-TWA (5) NF 100	MAT EXPO NOHSC ppm ES- STEL NA NF	SDS. ION SURE L ES-PEAK NA NF NF	PEL (5) NA 100	N AIR (m OSHA ppm STEL (10) *	IDLH (2500) NA NA Poison	OTHER * NIOSH
HITE ALCII ROPY ONO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; i	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 G, H336 E VOMITING. cy telephone n	SREDI % 60-100 1-5 D MEA Contact sumber for	ENT ACC PPP TLV (5) NA 100 ASUF SafetyCr assist	INF GIH STEL NA 150 RES Call +1 ance a	ES- TWA (5) NF 100 (855) and ins	MAT EXPO NOHSC ppm ES- STEL NA NF NF	SDS. ION SURE L ES-PEAK NA NF NF 742 or ons. So	PEL (5) NA 100	N AIR (m OSHA ppm STEL (10) *	IDLH (2500) NA NA Poisonate media	OTHER * NIOSH Control Centerical attention.
HITE ALCII ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; H Ingestion:	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 OO NOT INDUC r local emergen omiting occurs s	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 E VOMITING. cy telephone nepontaneously,	% 60-100 5-10 1-5 D MEA Contact sumber for keep victi	ENT ACC PP TLV (5) NA 100 ASUF SafetyCr assistim's he	INF GIH STEL NA 150 RES Call +1 ance a ad low	ES-TWA (5) NF 100 (855) and inservered (MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 structic forwar	SDS. ION SURE L ES-PEAK NA NF NF 742 or ons. Sor od) to re	PEL (5) NA 100 the reduce	N AIR (m OSHA ppm STEL (10) * NA 150	IDLH (2500) NA Representation of the medical content of the medica	OTHER * NIOSH Control Centerical attention.
HITE ALCII ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; H Ingestion: D OI VC Eyes: If	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 OO NOT INDUC or local emergen omiting occurs seproduct gets in	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 FIRST AI E VOMITING. cy telephone n spontaneously, n the eyes, flu	% 60-100 1-5 Contact Saumber for keep victsh eyes t	ENT ACC PP TLV (5) NA 100 ASUF Safety(Cr assistim's he horouge	INF GIH DM STEL NA 150 RES Call +1 and low	ES-TWA (5) NF 100 (855) and insered (th cop	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forwar ious a	SDS. ION SURE L ES-PEAK NA NF NF 742 or ons. So d) to reamount	PEL (5) NA 100 The reek in educe s of v	N AIR (m OSHA ppm STEL (10) * NA 150	IDLH (2500) NA NA Representation of the property of the pro	OTHER * NIOSH Control Centerical attention. oiration. ast 15 minutes
LCIU ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; I	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 OO NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s)	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 FIRST AI E VOMITING. cy telephone neppontaneously, in the eyes, fluopen to ensur	% 60-100 5-10 1-5 Contact shumber for keep vict sh eyes the complete in the	PPP TLV (5) NA 100 ASUF assistim's he horough te flush	INF GIH DM STEL NA 150 RES Call +1 ance a ad low phly wining. I	ES-TWA (5) NF 100 (855) and insered (th copf the e	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forwar ious a	SDS. ION SURE L ES-PEAK NA NF NF 742 or ons. So d) to reamount	PEL (5) NA 100 The reek in educe s of v	N AIR (m OSHA ppm STEL (10) * NA 150	IDLH (2500) NA NA Representation of the property of the pro	OTHER * NIOSH Control Centerical attention. oiration. ast 15 minutes
HITE ALCII ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; Ingestion: D OI VI Eyes: If	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB770000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph	EINECS No. 232-455-8 263-093-9 H319 203-539-1 H336 FIRST AI E VOMITING. cy telephone appontaneously, in the eyes, flu open to ensurysician or eme	% 60-100 5-10 1-5 D MEA Contact : sumber for sumber sor sheep vict sh eyes t e complet	PPP TLV (5) NA 100 ASUF Safety Cr assist im's heg horough te flushom imm	INF GIH MA STEL NA 150 RES Call +1 ance a and low hing. I	ES-TWA (5) NF 100 (855) and inside yered (the coperation of the	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forwarious assess of	SDS. ION SURE L ES-PEAK NA NF NF 742 or one of the real of the real or one of the re	PEL (5) NA 100 The eke in meduce so of whech we have the solution of the sol	N AIR (m OSHA ppm STEL (10) *	IDLH (2500) NA NA Poison at emedic k of asport the billen during the medic k. The control of	OTHER * NIOSH Control Centerical attention. ast 15 minutestring or followin
ALCII ROPY ONO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; I Ingestion: D or or vo Eyes: If h Skin: R	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs si product gets ii olding eyelid(s) se, consult a ph	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 5, H336 FIRST AI E VOMITING. ocytelephone no spontaneously, on the eyes, flu open to ensur ysician or emenated clothing	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes te completing regency round wash	PPP TLV (5) NA 100 ASUF SafetyCr assistim's he horough te flushom imm affect	INF GIH om STEL NA 150 RES Call +1 ance a and low ining. I nediated are	ES-TWA (5) NF 100 (855) and insidered (th cope of the energy eas with easy	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forwar ious a eyes on	SDS. ION SURE L ES-PEAK NA NF 742 or	PEL (5) NA 100 the richer in each of the water.	N AIR (m OSHA ppm STEL (10) *	IDLH (2500) NA NA Poison at emedic k of aspor at lebllen duit comforts.	OTHER * NIOSH Control Centerical attention. ioiration. ast 15 minutes ring or followin persists and/o
HITE ALCII ROPY ONO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; I	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph temove contamine skin reaction	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 FIRST AI E VOMITING. cy telephone no epontaneously, no the eyes, flu open to ensur ysician or emenated clothing worsens, conti	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes te completing regency round wash	PPP TLV (5) NA 100 ASUF SafetyCr assistim's he horough te flushom imm affect	INF GIH om STEL NA 150 RES Call +1 ance a and low ining. I nediated are	ES-TWA (5) NF 100 (855) and insidered (the coper of the coper of th	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forwar ious a eyes on	SDS. ION SURE L ES-PEAK NA NF 742 or	PEL (5) NA 100 the richer in each of the water.	N AIR (m OSHA ppm STEL (10) *	IDLH (2500) NA NA Poison at emedic k of aspor at lebllen duit comforts.	OTHER * NIOSH Control Centerical attention. ioiration. ast 15 minutes ring or followin persists and/o
HITE ALCII ROPY ONO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; If 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; 1 Ingestion: D OI VC Eyes: If h Us Skin: R	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph temove contami ne skin reaction as been properl	EINECS No. 263-093-9 H319 203-539-1 5, H336 FIRST AI E VOMITING. cy telephone in expontaneously. nother eyes, flu open to ensur ysician or emenated clothing worsens, conty cleaned.	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes te e completer gency roand wash act a phy	ENT ACC PP TLV (5) NA 100 ASUF SafetyCr assist im's he horough the flush om imn affect sician in affect s	INF GIH STEL NA 150 RES Call +1 ance a ad low wining. I inediate determined	ES-TWA (5) NF 100 (855) and inservered (the cope of the eely. eas with distributions with the cope of the eely.	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forward ious a eyes of	SDS. ION SURE L ES-PEAK NA NF 742 or ons. So d) to reamount or face of the peak of the peak of the wear of the second	PEL (5) NA 100 the reek in educe s of volumer to be continued to the reconstruction of	N AIR (m OSHA ppm STEL (10) * NA 150 nearest nmedia the ris vater for ne swo	IDLH (2500) NA NA Poison ate medik of aspor at ledillen during accomfort	OTHER * NIOSH Control Centerical attention. siration. asst 15 minutes ring or followin persists and/oning until after
HITE ALCII ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; I	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph temove contami ne skin reaction as been properl Remove victir	EINECS No. 232-455-8 263-093-9 H319 203-539-1 5, H336 FIRST AI E VOMITING. cy telephone in expontaneously, and the eyes, flu open to ensur ysician or emenated clothing worsens, conty cleaned. In to fresh air	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes to e complete rgency ror and wash act a phy at once.	ENT ACC PP TLV (5) NA 100 ASUF SafetyCr assist im's he horough the flush om imn affect sician in Under the control of the c	INF GIH IM STEL NA NA 150 RES Call +1 ance a ad low hing. I inediate ted are t	ES-TWA (5) NF 100 (855) and inservered (the cope of the eely. eas with distributions with the cope of the eely.	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forward ious a eyes of	SDS. ION SURE L ES-PEAK NA NF 742 or ons. So d) to reamount or face of the peak of the peak of the wear of the second	PEL (5) NA 100 the reek in educe s of volumer to be continued to the reconstruction of	N AIR (m OSHA ppm STEL (10) * NA 150 nearest nmedia the ris vater for ne swo	IDLH (2500) NA NA Poison ate medik of aspor at ledillen during accomfort	OTHER * NIOSH Control Centerical attention. siration. asst 15 minutesing or following persists and/oning until after
HITE ALCII ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; If 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; 1 Ingestion: D OI VC Eyes: If h Us Skin: R	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph temove contami ne skin reaction as been properl	EINECS No. 232-455-8 263-093-9 H319 203-539-1 5, H336 FIRST AI E VOMITING. cy telephone in expontaneously, and the eyes, flu open to ensur ysician or emenated clothing worsens, conty cleaned. In to fresh air	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes to e complete rgency ror and wash act a phy at once.	ENT ACC PP TLV (5) NA 100 ASUF SafetyCr assist im's he horough the flush om imn affect sician in Under the control of the c	INF GIH IM STEL NA NA 150 RES Call +1 ance a ad low hing. I inediate ted are t	ES-TWA (5) NF 100 (855) and inservered (the cope of the eely. eas with distributions with the cope of the eely.	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forward ious a eyes of	SDS. ION SURE L ES-PEAK NA NF 742 or ons. So d) to reamount or face of the peak of the peak of the wear of the second	PEL (5) NA 100 the reek in educe s of volumer to be continued to the reconstruction of	N AIR (m OSHA ppm STEL (10) * NA 150 nearest nmedia the ris vater for ne swo	IDLH (2500) NA NA Poison ate medik of aspor at ledillen during accomfort	OTHER * NIOSH Control Centerical attention. siration. asst 15 minutes ring or followin persists and/oning until after
HITE ALCIU ROPY DNO	E MINERAL OIL UM SULFONATE YLENE GLYCOL METHYL ETHER	CAS No. 8042-47-5 Asp. Tox. 1; H 61789-86-4 Skin Sens. 1; 107-98-2 Flam. Liq. 3; I Ingestion: D OI VC Eyes: If hc Us Skin: R th ha Inhalation:	RTECS No. PY8047000 H304, H226 NA ; Eye Irrit. 2; H317 UB7700000 STOT SE 3; H226 O NOT INDUC r local emergen omiting occurs s product gets in olding eyelid(s) se, consult a ph temove contami ne skin reaction as been properl Remove victir	EINECS No. 232-455-8 263-093-9 , H319 203-539-1 6, H336 FIRST AI E VOMITING. cy telephone nepontaneously, the eyes, flur open to ensure nated clothing worsens, controlled in the fresh air eek immediate	SREDI % 60-100 5-10 1-5 DMEA Contact sumber for keep vict sh eyes to e complete rgency ror and wash act a phy at once.	ENT ACC PP TLV (5) NA 100 ASUF SafetyCr assist im's he horough the flush om imn affect sician in Under the control of the c	INF GIH IM STEL NA NA 150 RES Call +1 ance a ad low hing. I inediate ted are t	ES-TWA (5) NF 100 (855) and inservered (the cope of the eely. eas with distributions with the cope of the eely.	MAT EXPO NOHSC ppm ES- STEL NA NF NF 281-1 struction forward ious a eyes of	SDS. ION SURE L ES-PEAK NA NF 742 or ons. So d) to reamount or face of the peak of the peak of the wear of the second	PEL (5) NA 100 the reek in educe s of volumer to be continued to the reconstruction of	N AIR (m OSHA ppm STEL (10) * NA 150 nearest nmedia the ris vater for ne swo	IDLH (2500) NA NA Poison ate medik of aspor at ledillen during accomfort	OTHER * NIOSH Control Centerical attention. siration. asst 15 minutes ring or followin persists and/oning until after
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 4. FIRST AID MEASURES - cont'd 4.3 Symptoms of Overexposure: Redness, burning, irritation, and swelling around eyes. Eyes: Redness, burning, itching, rash, and scaling of the skin (dermatitis). Skin: Nausea, vomiting, severe abdominal pain. Ingestion: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. Inhalation: 4.4 Acute Health Effects: May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May be harmful if swallowed. Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects Chronic Health Effects: May damage the nervous system, kidney and/or liver. 4.5 4.6 Target Organs: Eyes, skin, lungs. Medical Conditions 4.7 Persons with pre-existing central nervous system (CNS) disease, HEALTH 1 Aggravated by Exposure: neurological conditions, skin disorders, chronic respiratory diseases, **FLAMMABILITY** 1 or impaired liver or kidney function should avoid exposure. 0 PHYSICAL HAZARDS PROTECTIVE EQUIPMENT В SKIN 5. FIREFIGHTING MEASURES High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed 5 1 Fire & Explosion Hazards: containers. Avoid all ignition sources such as sparks, heat and open flames. Product or residue can ignite explosively. 5.2 Extinguishing Methods: Carbon dioxide, foam, low velocity water fog, Halon (if permitted), dry chemical extinguisher. As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective Firefighting Procedures: clothing. Treat as hot oil. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective 6.1 Spills: Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Use ONLY non-sparking tools. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out 7.1 Work & Hygiene Practices: of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Immediately clean-up and decontaminate any spills or residues. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in closed containers. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10). Protect containers from physical damage. Special Precautions: 7.3 Empty containers may retain hazardous product residues. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER 8.1 ppm (mg/m³) TLV STEL ES-TWA ES-STEL ES-PEAK PEL STEL IDLH CHEMICAL NAME(S) * NIOSH WHITE MINERAL OIL (5) NA (5) NA NA (5) (10)(2500)PROPYLENE GLYCOL 150 100 150 NA MONOMETHYL ETHER 8.2 Ventilation & Engineering Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-8.3 Respiratory Protection: In instances where vapors or sprays 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.



Effects on Plants & Animals:

Effects on Aquatic Life:

No data available

No data available.

12.2

12.3

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 3/14/2017 SDS Revision: 2.0 8. EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd Safety glasses with side shields must be used when handling or using this product. A protective face Eye Protection: 8 4 shield is also recommended. Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. Hand Protection: Not required under normal conditions of use. A chemical resistant apron and/or protective clothing are 8.6 Body Protection: recommended when handling or using large quantities (e.g., > 5 gallons (18.9 L)) of this product 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Opaque, light brown liquid Odor: Kerosene odor 9.2 Odor Threshold 9.3 NA NΑ 9.4 pH: 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling > 110 °C (> 230 °F) Range: 120°C (248 °F) 9.7 Flashpoint: Upper/Lower Flammability 9.8 LEL: NA: UEL: NA Vapor Pressure: 9.9 9.10 Vapor Density: > 1.0 (air = 1.0)Relative Density: 0.8057 9.11 9.12 Solubility Immiscible (water) 9.13 Partition Coefficient (log Pow) NA Autoignition Temperature: NA 9.14 9.15 Decomposition Temperature: NA 9.16 Viscosity: NA Other Information: Evaporation Rate: < 1.0 (ethyl ether = 1.0); VOC: 0.2 lbs/gallon 9.17 10. STABILITY & REACTIVITY 10.1 Stability Stable under normal storage and use conditions. Reaction with strong reducing agents and oxidizer can create a fire. Thermal decomposition may produce carbon and 10.2 Hazardous Decomposition nitrogen oxides, hydrocarbons and/or derivatives Hazardous Polymerization: Will not occur. 10.3 10.4 Conditions to Avoid: Excessive heat and incompatible materials. 10.5 Incompatible Substances: Strong reducing agents, acids, alkalis, oxidizing agents 11. TOXICOLOGICAL INFORMATION Inhalation: YES Routes of Entry: Absorption: YES Ingestion: NO 11.1 11.2 Toxicity Data: Mineral Oil: LD50 (oral, rat) > 5,000 mg/kg; Propylene Glycol Monomethyl Ether: LD50 (oral, rat) = 5,660 mg/kg Acute Toxicity: 11.3 See Section 4.4 Chronic Toxicity: 11.4 See Section 4.5 Suspected Carcinogen: 11.5 IARC 3 (not classifiable as to carcinogenicity in humans (for mineral oils, highly refined)) 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: See Section 4.2 11.8 Biological Exposure Indices: NE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION This product is expected to have a low potential to degrade and thus is expected to persist in the environment. □Do not 12.1 **Environmental Stability**

allow to enter into soil/subsoil. If product enters soil, it will be mobile and may contaminate groundwater



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		40 DIODOCAL CONCIDENTIONS
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	U.S. EPA Hazardous Waste Number D001 (Ignitability). If incinerated, the resulting ash will contain extractable barium. A waste with extractable barium of 100 ppm or greater is assigned EPA Hazardous Waste Number D005 (Toxicity Characteristic – Barium).
		14. TRANSPORTATION INFORMATION
		ober, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	NOT REGULATED
14.2	IATA (AIR):	NOT REGULATED
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED
		,
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains Propylene Glycol Monomethyl Ether, a substance subject to SARA Title III, section 313 reporting requirements.
15.2	SARA TPQ:	NA
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	NA
15.5	Other Federal Requirements:	NA NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS 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 Class D2B (Materials Causing Other Toxic Effects).
15.7	State Regulatory Information:	Propylene Glycol Monomethyl Ether is found on 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), and Washington Permissible Exposures List (WA). Mineral Oil is found on the following state criteria lists: NJ, PA. 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: 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).



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		16. OTHER INFO	DRMATION
16.1	Other Information:	REACTION. Wear protective gloves/eye protect	ED AND ENTERS AIRWAY. MAY CAUSE AN ALLERGIC SKIN ion. If swallowed, immediately call a Poison Center or doctor/physician. sh occurs: Get medical advice/attention. Store in a cool, well-ventilated: H OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for a Technologies' knowledge, the information contai suitability or completeness is not guaranteed an The information contained herein relates only	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood ned herein is reliable and accurate as of this date; however, accuracy, d no warranties of any type, either expressed or implied, are provided to the specific product(s). If this product(s) is combined with other sidered. Data may be changed from time to time. Be sure to consult the
16.4	Prepared for:	Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com	BIRCHWOOD® TECHNOLOGIES
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	ShipMate Dangerous Goods Training & Consulting



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SDS Revision: 2.0

SDS Revision Date: 3/14/2017

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

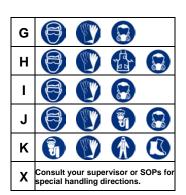
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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	(ELL)	THE THE	
Ε			
F		THE SECOND	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity - Repeat Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	TY LIMITS IN AIR:
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source 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	/ \ \ \ \ \
W	Use No Water	HEALTH
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exp LC 50 Lethal concentration (gases) which kills 50% of the exp ppm Concentration expressed in parts of material per million TD 10 Lowest dose to cause a symptom	osed 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, TC _o , LC _{io} , & LC _o	
IARC International Agency for Research on Cancer	
NTP National Toxicology Program	
RTECS Registry of Toxic Effects of Chemical Substances	
BCF Bioconcentration Factor	
TL _m 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	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	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			_		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment