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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.1

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1.1	Product Name:	SHEATH	PRODUC ®WS12	I & CON	IPANT	IDE	NIIF	-ICA	110	<u>IN</u>				
1.2	Chemical Name:	Petroleum Dis	tillate											
1.3	Synonyms:	820550, 8205	51, 820558, 82	20558PLAS										
1.4	Trade Names:	Sheath® WS1	2											
1.5	Product Use:	Lubricate, Per	etrate, Displac	ce Water, Prot	ect Surfac	es fron	n Corro	osion						
1.6	Distributor's Name:	Birchwood Lal	oratories LLC											
1.7	Distributor's Address:	7900 Fuller Road, Eden Prairie, MN 55344 USA												
1.8	Emergency Phone:	ChemTrec +	,			887 o	r Pois	on C	ontro	I Cen	ter +1	(855)	281-	1742
1.9	Business Phone / Fax:	+1 (952) 937-7		•	00) 021-0	001 0	1 1 010	3011 0	Ontro	ı ocıı		(000	201-	1772
			0 11	174DD0	IDENIT	IFIA	A T1/	211						
2.1	Hazard Identification:	Duamanadia		AZARDS				_	ا ماما			4b 001	14 00 (CFR 1910.1200
2.1	Tidzaid idonancatori.	Canadian WH DANGER! MA MILD SKIN IR	MIS and Austr AY BE FATAL RRITATION. C	alian Work He IF SWALLOV AUSES EYE I	ealth and S VED AND RRITATIO	afety ENTEF N.	RS AIF	RWAY.	FLAN	ИМАВ	LE LIC			POR. CAUSES
2.2	Label Elements:	Hazard Stater liquid and vap Precautionary other ignition s container and gloves/eye pro CENTER/doc off immediate irritation occu with water for P337+P313 – Use carbon di	Classification: Aspiration Hazard 1, Flammable Liquid 3, Skin Irritant 3, Eye Irritant 2B Hazard Statements (H): H304 – May be fatal if swallowed and enters airways. H226 – Flammable liquid and vapor. H316 – Causes mild skin irritation. H320 – Causes eye irritation Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P233 – Keep container tightly closed. P240 – Ground and bond container and receiving equipment. P264 – Wash thoroughly after handling. P280 – Wear protective gloves/eye protection/ face protection. P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 – Do not induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P332+P313 – If skin irritation occurs: Get medical advice/attention. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P370+P378 – In case of fire: Use carbon dioxide, foam, low velocity water fog, or halon (if permitted), dry chemical extinguisher. P403+P235 – Store in a well-ventilated place keep cool. P405 – Store locked up. P501 - Dispose of											
2.2	Other Warnings:											! . !		
2.3		I In the event o	f an exposure	or medical in	auiry invol	vina th	is nro	duct n	lease	contac	t a nh	vsician	or loc	al noison contro
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CHEMI SEVE NAPH DISTIII NAPH SODIL PROP MONC 9-OCT TRIET * conta	CAL NAME(S) RELY HYDROTREATED ITHENIC PETROLEUM OIL LLATES (PETROLEUM), COTREATED LIGHT ITHENIC * JM ALKYLARYL SULFONAT PYLENE GLYCOL DMETHYL ETHER TADECANOIC ACID THANOLAMINE ains less than 3% DMSO	CAS No. 64742-52-5 Aspiration Haz 64742-53-6 Aspiration Haz 64742-53-8 Eye Irrit. 2; H3 107-98-2 Flammable Lic 112-80-1	RTECS No. NA ard 1; H304 NA INA INA INA INA INA INA INA INA INA	ek advice CHILDREN. ION & IN EINECS No. 265-155-0 265-156-6 298-640-0 203-539-1 3; H226, H336 204-007-1 203-049-8	% 30-60 30-60 110-30 1-5 11-5	ENT AC PI TLV (5) NA 100 NA (5)	INF GIH pm STEL (10) (10) NA 150 NA NA	ES-TWA (5) (5) NF 100 NF	WAT EXPO NOHSO ppm ES- STEL NA NA NF NF	ES-PEAK NA NF NF NF	PEL (5) (5) NA 100 NA NA NA	Show N AIR (m OSHA ppm STEL NA NA NA NA NA NA	IDLH NA NA NA NA NA NA	OTHER OIL MIST
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CHEMI SEVEI NAPH DISTIII HYDR NAPH SODIU PROP MONO 9-OCT TRIET * conta	CAL NAME(S) RELY HYDROTREATED ITHENIC PETROLEUM OIL LLATES (PETROLEUM), COTREATED LIGHT ITHENIC * JM ALKYLARYL SULFONAT PYLENE GLYCOL DMETHYL ETHER TADECANOIC ACID THANOLAMINE ains less than 3% DMSO	CAS No. 64742-52-5 Aspiration Haz 64742-53-6 Aspiration Haz 93820-59-8 Eye Irrit. 2; H3 107-98-2 Flammable Lic 112-80-1 102-71-6 Ingestion:	RTECS No. NA NA INA INA INA INA INA INA INA INA I	EINECS No. 265-155-0 265-156-6 298-640-0 203-539-1 204-007-1 203-049-8 FIRST AICE VOMITIN ency telephorurs spontanect in the eyes, s) open to ens	% 30-60 30-60 10-30 1-5 1-5 ID MEA G. Contacte number pusly, keep flush eyes sure completed by the complete of the contact of the complete of the complet	ENT AC PI TLV (5) (5) NA 100 NA (5) ASUI t Chem for ass victim thoroulete fluiters.	INF GIH pm STEL (10) (10) NA NA NA NA RES istance 's head ughly v shing.	manu ESTWA (5) (5) (5) NF 100 NF NF H1 (800e and do lower with cool of the	WAT EXPO NOHSO ppm ES- STEL NA NA NF NF NF NF O) 424- instructed (for pious	ES-PEAK NA NF	PEL (5) (5) NA 100 NA NA NA Seek to recorts of	NAIR (m OSHA ppm STEL NA NA NA NA	IDLH NA NA NA NA NA Or at least of the control of t	OTHER OIL MIST OIL MIST OIL MIST OIL MIST An Control Cente ledical attention of aspiration. east 15 minutes
CHEMI SEVEI NAPH DISTIII HYDR NAPH SODIU PROP MONO 9-OCT TRIET * conta	CAL NAME(S) RELY HYDROTREATED ITHENIC PETROLEUM OIL LLATES (PETROLEUM), COTREATED LIGHT ITHENIC * JM ALKYLARYL SULFONAT PYLENE GLYCOL DMETHYL ETHER TADECANOIC ACID THANOLAMINE ains less than 3% DMSO	CAS No. 64742-52-5 Aspiration Haz 64742-53-6 Aspiration Haz 107-98-2 Flammable Lic 112-80-1 Ingestion: Eyes: Skin:	RTECS No. NA RECS No. RECS NO. NA RECS NO. R	EINECS No. 265-155-0 EINECS No. 265-155-0 265-156-6 298-640-0 203-539-1 3; H226, H336 204-007-1 203-049-8 FIRST A ICE VOMITIN ency telephorurs spontanec in the eyes, so open to ency physician or eminated cloth on worsens, composition or eminated cloth or worsens.	### GREDI ### 30-60 ### 30-60 ### 30-60 ### 1-5 ### 1-5 ### ID MEA G. Contactone number pulsive, keeps p	ENT AC PI TLV (5) (5) NA 100 NA (5) ASUI t Cherr for ass victim thorough is affective in the state of the state	INF GIH pm STEL (10) (10) NA 150 NA NA NA RES Trec + sistance 's head ughly v shing, ughly v shing, mmed ected a	manu EORI ES- TWA (5) (5) NF 100 NF NF H1 (800 Re and d lower with cool of the iately. areas we are as well	WAT EXPO NOHSC ppm ES- STEL NA NF NF NF NF NF Vith socious	ES-PEAK NA NF NF NF NF NF Again amour or face ap and	PEL (5) (5) NA 100 NA NA NA Seek to recuts of become	NAIR (mosha ppm stell NA	IDLH NA	OTHER OIL MIST OIL MIST



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SDS Revision: 2.1

4.2		4 FIDET A	ID MEACH	DEC 00	ام (4 م					
4.2	Effects of Exposure:	4. FIRST A Eyes: Irritation upon direct co		KES - CO	nta					
	Elicola of Exposure.	Skin: Irritation and possible dermatitis. Ingestion: Irritation to the gastrointestinal tract. Aspiration of mineral oil into the lungs can cause chemical pneumonia.								
		Inhalation: Inhalation of high vapo headache, dizziness, a			entral nervous	system ef	fects, a	and syn	nptoms suc	ch as
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irrita								
		Skin: Redness, burning, itchi	ing, rash, and sc	aling of the skir	(dermatitis).					
		Ingestion: Nausea, vomiting, seve								
4.4	Acute Health Effects:	Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. 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.								
4.5	Chronic Health Effects:	May damage the nervous system, k			ii oi tiiloat and	eyes, and	ı Kidile)	/ enecis	5.	
4.6	Target Organs:	Eyes, skin								
4.7	Medical Conditions	Persons with pre-existing central	nervous system	(CNS) diseas	e, HEALTH				1	
	Aggravated by Exposure:	neurological conditions, skin disord	lers, chronic resp	oiratory disease					1	
		or impaired liver or kidney function s	should avoid exp	osure.			N D D C	_		
					PHYSIC				0	
					PROTEC		QUIPM	ENT	<u> B</u>	
					EYES	SKIN				
		5 EIDEE	IGHTING N	/E V SI I DE	•					
5.1	Fire & Explosion Hazards:	High heat will cause product to bo				runturo of	closed			
5.1	THE G Explosion Hazards.	containers. Avoid all ignition source ignite explosively.								
5.2	Extinguishing Methods:	Carbon dioxide, foam, low velocity v								
5.3	Firefighting Procedures:	As with any fire, firefighters should w	vear appropriate	protective equip	ment including	a MSHA/	NIOSH			
		approved or equivalent self-contained							0	
		hot oil. Hazardous decomposition							Y	
		oxides of carbon, and/or nitrogen, safe distance. Keep containers co								
		exposed surfaces and to protect pe								
		dilution from entering sewers, drains								
								•		
		6. ACCIDENT								
6.1	Spills:	Before cleaning any spill or leak, ind								
		(PPE). Use safety glasses or safety etc.) to prevent skin contact.	y goggies and iad	ce snieid, use g	loves and othe	protectiv	e cioin	ing (e.g	J., apron, b	oois,
		Small Spills: Wear appropriate prot	tective equipmen	t including glov	es and protec	tive eyew	ear. U	se a no	on-combus	
		inert material such as vermiculite or								tible,
		Large Spills: Keep incompatible ma	- 4! - l - /						al.	tible,
				anics such as o					way from s	oill o
		release. Isolate immediate hazard	area and keep	anics such as ounauthorized p	ersonnel out o	farea. St	top spil	l or rele	way from spease if it ca	oill oi an be
		release. Isolate immediate hazard done with minimal risk. Use ONL	area and keep Y non-sparking	anics such as oun authorized potential tools. Wear a	ersonnel out of ppropriate pro	f area. St tective ed	top spil quipmer	l or rele nt inclu	way from s _l ease if it ca ding respir	oill or an be
		release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F	area and keep Y non-sparking Recover as mucl	anics such as ounauthorized potential tools. Wear a	ersonnel out of ppropriate pro possible and	f area. St tective ed collect in	top spil quipmer acid-re	l or rele nt inclu	way from s _l ease if it ca ding respir	oill oi an be
		release. Isolate immediate hazard done with minimal risk. Use ONL	area and keep Y non-sparking Recover as mucl	anics such as ounauthorized potential tools. Wear a	ersonnel out of ppropriate pro possible and	f area. St tective ed collect in	top spil quipmer acid-re	l or rele nt inclu	way from s _l ease if it ca ding respir	oill or an be atory
		release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F	area and keep Y non-sparking Recover as much discharging liqu	anics such as ounauthorized p tools. Wear a free liquid as id directly into a	ersonnel out o ppropriate pro possible and sewer or surfa	f area. St tective ed collect in	top spil quipmer acid-re	l or rele nt inclu	way from s _l ease if it ca ding respir	oill or an be atory
7.1	Work & Hygiene Practices:	release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F absorbent to pick up residue. Avoid 7. HANDLING & Avoid breathing mists or spray. Avo	area and keep Y non-sparking Recover as mucl discharging liqu & STORAG old eye and skin o	anics such as cunauthorized ptools. Wear and free liquid as id directly into a secondary.	ersonnel out of appropriate propossible and sewer or surfa	f area. Statective ed collect in ace waters	top spil quipmer acid-res.	l or relent includesistant	way from spease if it canding respire container.	oill or an be atory Use
7.1	Work & Hygiene Practices:	release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F absorbent to pick up residue. Avoid 7. HANDLING & Avoid breathing mists or spray. Avoid the reach of children. Do not eat,	area and keep Y non-sparking Recover as mucl discharging liqu & STORAG old eye and skin o , drink or smoke	anics such as cunauthorized ptools. Wear and free liquid as id directly into a secondary. Wear public when handling	propriate propossible and sewer or surfame. MATION rotective equip this product.	f area. St tective ec collect in ace waters oment whe	top spil quipmer acid-res.	l or rele nt inclu- esistant dling pro after h	way from spease if it cading respir container.	oill or an be atory Use
		release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F absorbent to pick up residue. Avoid 7. HANDLING & Avoid breathing mists or spray. Avo of the reach of children. Do not eat, expose to heat and flame. Use only	area and keep Y non-sparking Recover as mucl discharging liqu & STORAG old eye and skin of the drink or smoke in ventilated are	anics such as cunauthorized ptools. Wear and free liquid as id directly into a secondary when handling as. Immediatel	ersonnel out of appropriate propossible and sewer or surfarements. MATION protective equiping this product, y clean-up and	f area. St tective ec collect in ace waters oment whe Wash thou decontan	top spil quipmer acid-res. en hance roughly ninate a	l or rele nt inclu- esistant dling pro after h any spill	way from spease if it cading respir container. Doduct. Keep andling. Do ls or residu	oill or an be atory Use o out o not es.
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		release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F absorbent to pick up residue. Avoid 7. HANDLING (Avoid breathing mists or spray. Avoid the reach of children. Do not eat, expose to heat and flame. Use only Use and store in a cool, dry, well-ver Store in closed containers. Avoid	area and keep Y non-sparking Recover as mucl discharging liqu & STORAG oid eye and skin o , drink or smoke in ventilated are ntilated location (o temperatures ab	anics such as cunauthorized ptools. Wear and free liquid as id directly into a secondary when handling as. Immediateles, g., local exhausove 40°C (120)	ersonnel out of appropriate propossible and sewer or surfarements. MATION protective equiping this product, y clean-up and list ventilation, 1	r area. St tective ec collect in ace waters oment whe Wash thou decontant ans) away	top spil quipmer acid-res. en hance roughly ninate a	l or rele nt inclu- esistant dling pro after h any spill leat and	way from spease if it canding respiration container. Doduct. Keep andling. Do ls or residu	oill or an be atory Use o out o not es. light.
		release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. F absorbent to pick up residue. Avoid 7. HANDLING (Avoid breathing mists or spray. Avoid the reach of children. Do not eat, expose to heat and flame. Use only Use and store in a cool, dry, well-ver Store in closed containers. Avoid Section 10). Protect containers from	area and keep Y non-sparking Recover as much discharging liqu STORAG did eye and skin or, drink or smoke in ventilated area ntilated location (or temperatures at physical damag	anics such as cunauthorized ptools. Wear and free liquid as id directly into a secondary when handling as. Immediateles, g., local exhausove 40°C (120 le.)	ersonnel out of appropriate propossible and sewer or surfarements. MATION protective equiping this product, y clean-up and list ventilation, 1	r area. St tective ec collect in ace waters oment whe Wash thou decontant ans) away	top spil quipmer acid-res. en hance roughly ninate a	l or rele nt inclu- esistant dling pro after h any spill leat and	way from spease if it canding respiration container. Doduct. Keep andling. Do ls or residu	oill or an be atory Use o out o not es. light.
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7.2	Storage & Handling: Special Precautions:	release. Isolate immediate hazard done with minimal risk. Use ONL protection as conditions warrant. Fabsorbent to pick up residue. Avoid 7. HANDLING (Avoid breathing mists or spray. Avoid the reach of children. Do not eat, expose to heat and flame. Use only Use and store in a cool, dry, well-ver Store in closed containers. Avoid Section 10). Protect containers from Empty containers may retain hazard. 8. EXPOSURE CONTI	area and keep Y non-sparking Recover as mucl discharging liqu & STORAG oid eye and skin of discharging liqu to the control of the control discharging liqu STORAG oid eye and skin of dink or smoke in ventilated area in ventilated location (of temperatures at a physical damag dous product resi ROLS & PE ACGIH	anics such as cunauthorized ptools. Wear at free liquid as id directly into a secondary when handling as. Immediatel e.g., local exhausone 40°C (120 e. dues.	propriate propossible and sewer or surface. MATION Interpretation of the product of the produc	f area. St tective ed collect in ace waters oment whe Wash thor decontan fans) away ray from in	top spil quipmer acid-ress. en hance roughly ninate a y from hence on particular of the company	I or releated includes include	way from spease if it cading respir container. Doduct. Keep andling. Do ls or residud direct sun ubstances	oill or an be atory Use o out o not es. light.
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 2.1 SDS Revision Date: 10/20/2021

	8. E	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.2	Ventilation & Engineering Controls:	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-was station).
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.
8.4	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.
8.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.
8.6	Body Protection:	Not required under normal conditions of use. A chemical resistant apron and/or protective clothing are recommended when handling or using large quantities (e.g., > 5 gallons (18.9 L)) of this product.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear, dark, amber liquid
9.2	Odor:	Mild oil odor
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	> 315.5 °C (> 600 °F)
9.7	Flashpoint:	> 148.8 °C (> 300 °F)
9.8	Upper/Lower Flammability Limits:	LEL: 0.6%; UEL: 7.0%
9.9	Vapor Pressure:	< 0.1 mmHg
9.10	Vapor Density: Relative Density:	> 1.0 (air = 1.0) 0.92
9.11	· · · · · · · · · · · · · · · · · · ·	
9.12	Solubility:	Immiscible (water)
9.13	Partition Coefficient (log P _{ow}): Autoignition Temperature:	NA NA
9.14	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)
10.1	Louis	10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal storage and use conditions.
10.2	Hazardous Decomposition Products:	Reaction with strong reducing agents and oxidizer can create a fire. Thermal decomposition may produce carbon an nitrogen oxides, hydrocarbons and/or derivatives.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Excessive heat and incompatible materials. Strong reducing agents, acids, alkalis, oxidizing agents.
10.5	Incompatible Substances:	I Strong regulating agents, acids, alkalis, oxigizing agents
		Total of Total of Guide, and the Control of
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	
11.1	Routes of Entry: Toxicity Data:	11. TOXICOLOGICAL INFORMATION
		11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Triethanolamine: LD ₅₀ (oral, rat) = 74,000 mg/kg; Propylene Glycol Monomethyl Ether: LD ₅₀ (oral, rat) = 5,660 mg/k
11.2	Toxicity Data:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Triethanolamine: LD ₅₀ (oral, rat) = 74,000 mg/kg; Propylene Glycol Monomethyl Ether: LD ₅₀ (oral, rat) = 5,660 mg/k Petroleum Distillates, Hydrotreated: LD ₅₀ (oral, rat) > 5,000 mg/kg.
11.2	Toxicity Data: Acute Toxicity:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO
11.2 11.3 11.4	Toxicity Data: Acute Toxicity: Chronic Toxicity:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO
11.2 11.3 11.4 11.5	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO
11.2 11.3 11.4 11.5	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	
11.2 11.3 11.4 11.5	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity:	
11.2 11.3 11.4 11.5	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	11. TOXICOLOGICAL INFORMATION Inhalation: YES
11.2 11.3 11.4 11.5 11.6	Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: NO Triethanolamine: LD ₅₀ (oral, rat) = 74,000 mg/kg; Propylene Glycol Monomethyl Ether: LD ₅₀ (oral, rat) = 5,660 mg/k Petroleum Distillates, Hydrotreated: LD ₅₀ (oral, rat) > 5,000 mg/kg. See Section 4.4 See Section 4.5 IARC 3 (not classifiable as to carcinogenicity in humans (for mineral oils, highly refined)) This product is not reported to cause reproductive toxicity in humans. This product is not reported to produce mutagenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause teratogenic effects in humans. This product is not reported to cause reproductive effects in humans. This product is not reported to cause reproductive effects in humans. See Section 4.2 NE Treat symptomatically. Treat symptomatically. This product is expected to have a low potential to degrade and thus is expected to persist in the environment. □ Do not in the product is the product of the product is the product of the product is expected to persist in the environment. □ Do not in the product is expected to have a low potential to degrade and thus is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment. □ Do not in the product is expected to persist in the environment is product in



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SDS Revision: 2.1

13.1	Waste Disposal:	13. DISPOSAL CONSIDERATIONS Review current local, state, and federal laws, codes, statutes, and regulations to determine current status and appropriate					
0.1	Waste Bioposai.	disposal method for the ingredients listed in Section 2. Any disposal practice must follow local, state, and federal laws and					
		regulations. Contact the appropriate agency for specific information. Treatment, transport, storage, and disposal contact the appropriate agency for specific information.					
		hazardous waste must be provided by a licensed facility or waste hauler.					
3.2	Special Considerations:	U.S. EPA Hazardous Waste Number D001 (Ignitability). If incinerated, the resulting ash will contain extractable barium.					
J.Z	Special Considerations.	waste with extractable barium of 100 ppm or greater is assigned EPA Hazardous Waste Number D005 (Toxicit					
		Characteristic – Barium).					
	ı	Characteristic – Danum).					
		44 TRANSPORTATION INCORMATION					
		14. TRANSPORTATION INFORMATION					
lesc	criptive information may be	nber, 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.					
4.1	49 CFR (GND):	NOT REGULATED					
1.2	IATA (AIR):	NOT REGULATED					
4.3	IMDG (OCN):	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (alkylbenzene					
		sulfonate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L)					
4.4	TDGR (Canadian GND):	sulfonate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (alkylbenzene sulfonate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L)					
4.5	ADR/RID (EU):	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (alkylbenzene					
	, ,	sulfonate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L)					
1.6	SCT (MEXICO):	UN3082, SUSTANCIA LIQUIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (alkilbenceno sulfonato), 9, III, CONTAMINANTE MARINO (CANT. LTDA IP VOL ≤ 5.0 L)					
1.7	ADGR (AUS):	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (alkylbenzene					
	ABOIT (1.00).	sulfonate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L)					
		15. REGULATORY INFORMATION					
5.1	SARA Reporting	This product contains Propylene Glycol Monomethyl Ether, a substance subject to SARA Title III, section 313 reportin					
	Requirements:	requirements.					
	SARA TPQ:	NA NA					
5.2	0/ 11 U 1 1 1 Q.						
	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.					
5.3		The components of this product are listed on the TSCA Inventory. NA					
5.3 5.4	TSCA Inventory Status:						
5.2 5.3 5.4 5.5 5.6	TSCA Inventory Status: CERCLA Reportable Quantity:	NA NA					
5.3 5.4 5.5	TSCA Inventory Status: CERCLA Reportable Quantity: Other Federal Requirements:	NA NA This product has been classified according to the hazard criteria of the CPR and the MSDS contains					
5.3 5.4 5.5	TSCA Inventory Status: CERCLA Reportable Quantity: Other Federal Requirements:	NA NA 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					
5.3 5.4 5.5	TSCA Inventory Status: CERCLA Reportable Quantity: Other Federal Requirements:	NA NA 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.					
5.3 5.4 5.5 5.6	TSCA Inventory Status: CERCLA Reportable Quantity: Other Federal Requirements:	NA NA 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).					
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.1

		16. OTHER INFO	ORMATION				
16.1	Other Information:	DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY. FLAMMALBE LIQUID AND VAPOR. CAUSES MILD SKIN IRRITATION. CAUSES EYE IRRITATION. Use as directed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Wash thoroughly after handling. Wear protective gloves/eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use carbon dioxide, foam, low velocity water fog, or halon (if permitted), dry chemical extinguisher. Store in a well-ventilated place keep cool. 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 Technologies' 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 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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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.1

SDS Revision Date: 10/20/2021

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	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:

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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:

Minimal Hazard Slight Hazard		FLAMMABILITY			
		\			
2	Moderate Hazard	REACTIVITY			
3	Severe Hazard				
4	Extreme Hazard				
ACD	Acidic				
ALK	Alkaline				
COR	Corrosive	─ / < ₩ >			
₩	Use No Water	HEALTH 🔪			
ОХ	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTIONS			

TOXICOLOGICAL INFORMATION:

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	SL Canadian Priority Substances List				
TSCA	GCA U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

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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:

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GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment