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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 1.1

1.1	Droduct Name			T & COM		IUĽ		ICA						
	Product Name:	FIREAR	M CLEANE		SOL									
.2	Chemical Name:	Aerosol												
.3	Synonyms:	16238												
.4	Trade Names:	Firearm Clear	ner Aerosol											
.5	Product Use:	Firearm Clear	ner											
.6	Distributor's Name:	Birchwood Ca												
.7	Distributor's Address:	3260 Winpark	k Drive, New Ho	pe, MN., 55427	7 USA									
.8	Emergency Phone:	ChemTrec ·	+1 (800) 424-9	9300 / +1 (703	3) 527-3	887 o	r Pois	ion Co	ontro	I Cent	ter +1	(866)	291-7	7152
.9	Business Phone / Fax:	+1 (952) 388-	6717	-										
			2. HA	ZARDS I	DENT	IFIC	ATIC)N						
2.1	Hazard Identification:	[NOHSC: 108	is classified as 88 (2004)] and A EXTREMELY I	DG Code (Aus	stralia).			-	•		•			
			IN IRRITATION											
		Classification	: Aerosol 1; Flar	n. Liq. 3; Asp. [·]	Tox. 1; S	kin Ser	ns.2; E	ye Irrit.	. 2.					
2.2	Label Elements:		ments (H): H22								contai	ner ma	iy	
			d. H315 – Caus											
			y Statements (F											
			nition sources.											
			251 – Do not st/vapors/spray.											
			drink or smoke											X
			ea. P280 – Wei											
			– IF ON SKIN: V											
				vuon with pion				1021	Oper		Julinoi	. 00		
		Section 4 of	f this Safetv D	Data Sheet.			If skir	n irritat	tion o		Get	medica		< रु४ >
				oata Sheet. 64 – Take of	Р́332+РЗ́	313 –				ccurs:			al	
		advice/attenti	ion. P362+P3	64 – Take of	P332+P3	813 – hinated	l cloth	ing an	nd wa	ccurs: sh it	before	reuse	al 9.	
		advice/attenti P304+P340	ion. P362+P3 – IF INHALED:	64 – Take of Remover per	P332+P3 f contan son to fr	813 – hinated resh ai	l cloth r and	ing an keep (nd wa comfo	ccurs: sh it rtable	before for br	reuse eathing	al 9. 9.	
		advice/attenti P304+P340 P312 – Call	ion. P362+P3 - IF INHALED: a POISON CE	64 – Take of Remover per NTER/doctor i	P332+P3 f contan son to fr f you fee	813 – ninated resh ai el unwe	l cloth r and ell. P:	ing an keep (305+P:	nd wa comfo 351+P	ccurs: sh it rtable '338 -	before for br IF IN	reuse eathing EYES	al 9. 9. 5:	
		advice/attenti P304+P340 P312 – Call Rinse cautiou	ion. P362+P3 – IF INHALED: a POISON CE usly with water fo	64 – Take of Remover per NTER/doctor i or several minu	P332+P3 f contan son to fr f you fee ites. Rem	813 – ninated resh ai el unwe nove co	l cloth r and ell. P: ontact	ing an keep (305+P3 lenses,	nd wa comfo 351+P , if pre	ccurs: sh it rtable 2338 – sent a	before for br IF IN nd eas	reuse eathing EYES sy to do	al 9. 9. 9. 8: 9.	
		advice/attenti P304+P340 P312 – Call Rinse cautiou Continue rins	ion. P362+P3 – IF INHALED: a POISON CE usly with water for sing. P337+P31	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irrita	P332+P3 f contan son to fr f you fee ites. Rem tion persi	13 – ninated esh ai el unwe nove co sts: ge	l cloth r and ell. P: ontact t medi	ing an keep (305+P3 lenses, cal adv	nd wa comfo 351+P , if pre /ice/at	ccurs: sh it rtable 2338 – sent a tention	before for bro IF IN nd eas n. P40	reuse eathing EYES y to do 3+P23	al 9. 9. 5. 5.	
		advice/attenti P304+P340 P312 – Call Rinse cautiou Continue rins – Store in a v	ion. P362+P3 – IF INHALED: a POISON CE usly with water for sing. P337+P31 well-ventilated pl	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irrita lace. Keep coo	P332+P3 f contan son to fr f you fee ites. Ren tion persi ol. P410-	13 – ninated resh ai el unwe nove co sts: ge +P412	I cloth r and ell. P: ontact I t medi – Prot	ing an keep (305+P3 lenses, cal adv ect fror	nd was comfo 351+P , if pre vice/at m sunl	ccurs: sh it rtable '338 – sent a tention light. I	before for br IF IN nd eas n. P40 Do not	reuse eathing EYES by to do 3+P23 expos	al 9. 9. 5: 5: 5: 6:	
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HEM		advice/attenti P304+P340 P312 - Call Rinse cautiou Continue rins - Store in a v to temperatu contents/cont WARNING: T cause birth de In the event of center, who m KEEP OUT O 3. CO	ion. P362+P3 – IF INHALED: a POISON CE usly with water for ing. P337+P31 well-ventilated pl ures exceeding tainer to licenses This product can efects or other re- of an exposure of any seek advice DF REACH OF CONTINUATION OMPOSITI RTECS No. MN9275000	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irritar lace. Keep cor 50 °F (122 ° s treatment, stor expose you to porductive har or medical inqu from the U.S. I CHILDREN.	Ý332+P3 f contan son to fr f you fee ites. Ren tion persio ol. P410- F). P410- F). P410- frage and o chemica m. For m uiry invol- manufact	hinated resh ai esh ai el unwe hove co sts: ge +P412 05 - S d dispo als incl hore inf ving th urer, a ENT	I cloth r and ell. P: ontact t medi t medi - Prot cornati is proc nd sho INF GIH om STEL 1000	ing an keep of 305+P3 lenses, cal adv ect fror ocked iility (TS N-Hexa on, go luct, pl bw then ORN	nd was comfo 351+P , if pre vice/att m sunl up. SDF). ane, w to ww ease of n this SDF). ane, w to ww ease of n this SDF NOHSC PPM ES- STEL 72	ccurs: sh it rtable '338 – sent a tention light. I P501 /hich is w.P65 contac SDS.	before for bro IF IN nd eas P40 Do not – Dis s know Warnin t a phy IMITS IN PEL 500	reuse eathing EYES y to do 3+P23 expose pose o vn to th ngs.ca. ysician	al al al al al al al al al al	al poison cont
HEM	ICAL NAME(S)	advice/attenti P304+P340 P312 - Call Rinse cautiou Continue rins - Store in a v to temperatu contents/cont WARNING: T cause birth de In the event of center, who m KEEP OUT O 3. CO	ion. P362+P3 – IF INHALED: a POISON CE usly with water for sing. P337+P31 well-ventilated pl ures exceeding tainer to licenses This product can efects or other re- of an exposure of any seek advice DF REACH OF CONTINUATION OMPOSITI RTECS No. MN9275000 Asp. Tox.1; Skin Ir	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irritar lace. Keep cor 50 °F (122 ° s treatment, stor expose you to exproductive haa or medical inqu from the U.S. I CHILDREN. ON & INC EINECS No. 203-777-6 rit. 2; STOT SE3	Ý332+P3 f contan son to fr f you fee ites. Ren tion persio ol. P410- F). P40- orage and o chemica m. For m uiry invol- manufact REDI	hinated resh ai esh ai el unwe hove co sts: ge +P412 05 – S d dispo als incl hore inf ving th urer, a ENT AC Pl TLV 50 STOT R	I cloth r and ell. P: ontact t medi - Prot store lo sal fac uding formati is proc nd sho INF GIH gIH 5 m 5 5 5 5 5 1000 E2; Chi	ing an keep of 305+P3 lenses, cal advect fror ocked iility (TS N-Hexa on, go luct, pl bw then ORN	nd wa comfo 351+P , if pre vice/att m sunl up. SDF). ane, w to ww ease o n this MAT EXPO NOHSC ppm ES- STEL 72 1. Tox. :	ccurs: sh it rtable '338 – sent a tention light. I P501 /hich is w.P65 contac SDS.	before for bro IF IN nd eas P40 Do not – Dis s know Warnin t a phy IMITS IN PEL 500 5, H304	reuse eathing EYES y to do 3+P23 expose pose o vn to th ngs.ca. ysician	al al al al al al al al al al	al poison cont other 1361, H373, H4
HEM HE	ICAL NAME(S)	advice/attenti P304+P340 P312 - Call Rinse cautiou Continue rins - Store in a v to temperatu contents/cont WARNING: T cause birth de In the event of center, who m KEEP OUT O 3. CO CAS No. 110-54-3 Flam. Liq. 2; / 67-63-0	ion. P362+P3 – IF INHALED: a POISON CE usly with water for sing. P337+P31 well-ventilated pl ures exceeding tainer to licenses This product can efects or other re- of an exposure of nay seek advice DF REACH OF CONTINIANS OMPOSITI RTECS No. MN9275000 Asp. Tox.1; Skin Irr NT8050000	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irritar lace. Keep cor 50 °F (122 ° s treatment, stor expose you to eproductive hai or medical inqu from the U.S. I CHILDREN. ON & INC EINECS No. 203-777-6 rit. 2; STOT SE3; 200-661-7	P332+P3 f contan son to fr f you fee ites. Ren tion persio ol. P410- F). P410- F). P410- prage and o chemica m. For m uiry invol- manufact REDI	hinated resh ai esh ai el unwe hove co sts: ge +P412 05 - S d dispo als incl hore inf ving th urer, a ENT AC Pl TLV 50 STOT R 400	I cloth r and ell. P: ontact t medi - Prot cornati is proc nd sho INF GIH 500 E2; Chi 500	ing an keep of 305+P3 lenses, cal adv ect fror ocked iility (TS N-Hexa on, go luct, pl bw then ORN	nd was comfo 351+P , if pre vice/att m sunl up. SDF). ane, w to ww ease of n this SDF). ane, w to ww ease of n this SDF NOHSC PPM ES- STEL 72	ccurs: sh it rtable '338 – sent a tention light. I P501 /hich is w.P65 contac SDS.	before for bro IF IN nd eas P40 Do not – Dis s know Warnin t a phy IMITS IN PEL 500	reuse eathing EYES y to do 3+P23 expose pose o vn to th ngs.ca. ysician	al al al al al al al al al al	al poison con
HEM	ICAL NAME(S)	advice/attenti P304+P340 P312 - Call Rinse cautiou Continue rins - Store in a v to temperatu contents/cont WARNING: T cause birth de In the event of center, who m KEEP OUT O 3. CO CAS No. 110-54-3 Flam. Liq. 2; / 67-63-0	ion. P362+P3 – IF INHALED: a POISON CE usly with water for sing. P337+P31 well-ventilated pl ures exceeding tainer to licenses This product can efects or other re- of an exposure of any seek advice DF REACH OF CONTINUATION OMPOSITI RTECS No. MN9275000 Asp. Tox.1; Skin Ir	64 – Take of Remover per NTER/doctor i or several minu 3 – If eye irritar lace. Keep cor 50 °F (122 ° s treatment, stor expose you to eproductive hai or medical inqu from the U.S. I CHILDREN. ON & INC EINECS No. 203-777-6 rit. 2; STOT SE3; 200-661-7	P332+P3 f contan son to fr f you fee ites. Ren tion persio ol. P410- F). P410- F). P410- prage and o chemica m. For m uiry invol- manufact REDI	113 − hinated resh ai l unwe hove co sts: ge +P412 55 − S d dispo als incl hore inf ving th urer, a ENT AC PI TLV 50 STOT R 400 1316, H3	I cloth r and ell. P: ontact t medi - Prot store lo sal fac uding formati is proc nd sho INF GIH 500 500 319	ing an keep of 305+P3 lenses, cal advect fror ocked iility (TS N-Hexa on, go luct, pl bw then ORN	nd wa comfo 351+P , if pre vice/att m sunl up. SDF). ane, w to <u>ww</u> ease o n this : MAT EXPO NOHSC PPM ES- STEL 72 1. Tox. : 500	ccurs: sh it rtable '338 – sent a tention light. I P501 /hich is w.P65 contac SDS.	before for bro IF IN nd eas P40 Do not – Dis s know Warnin t a phy IMITS IN PEL 500 5, H304 400	reuse eathing EYES y to do 3+P23 expose pose o vn to th ngs.ca. ysician I AIR (mg OSHA ppm STEL NA H315, 500	al al al al al al al al al al	al poison cont



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			4. FIRST AID MEASURES	
4.1	First Aid:	Ingestion: Eyes:	DO NOT INDUCE VOMITING. Contact Poison Control C Control Center or local emergency telephone number for medical attention. If vomiting occurs spontaneously, kee risk of aspiration. If product gets in the eyes, flush eyes thoroughly with co	r assistance and instructions. Seek immediate p victim's head lowered (forward) to reduce the pious amounts of water for at least 15 minutes,
		<u>Skin</u> :	holding eyelid(s) open to ensure complete flushing. If the use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected area and/or the skin reaction worsens, contact a physician immediater it has been properly cleaned.	s with soap and water. If discomfort persists
		Inhalation:	Remove victim to fresh air at once. Under extreme or respiration. Seek immediate medical attention.	conditions, if breathing stops, perform artificial
4.2	Effects of Exposure:	Ingestion: Eyes: Skin:	If product is swallowed, may cause nausea, temporary gas Moderately irritating to the eyes. Symptoms of overexpose watering. May be irritating to skin. The product can cause allergic s	sure may include redness, itching, irritation and
			some sensitive individuals.	
4.3	Symptoms of Overexposure:	Inhalation: Ingestion:	None expected. Nausea, intestinal discomfort, vomiting and/or diarrhea.	
ne		<u>Eyes</u> : <u>Skin</u> :	Overexposure in eyes may cause redness, itching and wat Symptoms of skin overexposure may include redness, itc like symptoms. The product can cause allergic skin rea individuals.	ching, and irritation of affected areas. Frostbite
4.4	Acute Health Effects:	Moderate irr sensitive ind	itation to eyes. The product can cause allergic skin rea ividuals.	ctions (e.g., rashes, welts, dermatitis) in some
4.5	Chronic Health Effects:		or chronic health effects are expected to occur from a single a	accidental ingestion.
4.6 4.7	Target Organs: Medical Conditions	Eyes, Skin		
	Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of the target s, skin, and respiratory system).	HEALTH 3 FLAMMABILITY 3 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT B EYES SKIN LUNGS
		I	5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:		EXTREMELY FLAMMABLE LIQUID AND VAPOR! Keep en flame. Keep container closed.	away from heat, lit cigarettes,
5.2	Extinguishing Methods:		(if permitted), Dry Chemical, Foam, as authorized.	
5.3	Firefighting Procedures:	decompose source of ign First respor protective e	t is a Class IB flammable liquid. When involved in a fire, this to produce carbon oxides. Vapors of this product are heavin- nition and flash back to a leaking or open container. Inders should wear eye protection. Structural firefighters quipment. Use a water spray or fog to reduce or direct actually extinguishing a fire involving this product.	er than air and may travel to a must wear SCBAs and full
			6. ACCIDENTAL RELEASE MEASUR	ES
6.1	Spills:	Equipment. For <u>small sp</u> ventilation (c and place ir federal regul contaminate	ning any spill or leak, individuals involved in spill clean <u>bills</u> (e.g., <1 gallon) wear appropriate personal protective pen doors and windows) and secure all sources of ignition. nto appropriate closed container(s) for disposal. Dispose ations. Wash all affected areas and outside of container wi d clothing and wash thoroughly before reuse.	up must wear appropriate Personal Protective e equipment (e.g., goggles, gloves). Maximize Remove spilled material with absorbent material of properly in accordance with local, state and th plenty of warm water and soap. Remove any
		or earth). Us and solid dik	ills ≥ 1 gallon, deny entry to all unprotected individuals. Dik se ONLY non-sparking tools for recovery and cleanup. Trar ing material to separate containers for proper disposal. Re a areas with soap and water. Keep spills and cleaning rund	nsfer liquid to containers for recovery or disposal move contaminated clothing promptly and wash



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	Γ	7. HANDLING									
7.1	Work & Hygiene Practices:	Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well- ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product.									
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. Keep away from children at all times!									
7.3	Special Precautions:	Do not store where temperatures unattended. Clean all spills prom	s can exe								hazard if lef
		8. EXPOSURE CONT	ROLS	& PE	RSON		ROTEC				
8.1	Exposure Limits:		AC			NOHSC			OSHA		OTHER
	ppm (mg/m ³)		-	0751		ES-	ES-		0751		
		CHEMICAL NAME(S) n-HEXANE	TLV 50	STEL 1000	ES-TWA 20	STEL 72	PEAK NF	PEL 500	STEL NA	IDLH 1100	-
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA
		CARBON DIOXIDE	5000	30000	5000	9000	NF	5000	30000	40000	ASPHYX
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) of exhaust ventilation to effectively product. Ensure that an eyewash s	or natura remove	l ventilat and prev	ion is suff ent buildu	icient wh p of vap	ien this p ors or mi	roduct is st gener	in use. ated fron	Use loc n the ha	al or genera
8.3	Respiratory Protection:	No special respiratory protection instances where vapors or sprays use only protection authorized by 2 CAS Standard Z94.4-93 and ap Australia.	is required is required of this p 29 CFR §	ired und product a 1910.134	er typical re generat 1, applicab	circums ted, and le U.S. S	tances of respirator	use or y protecti ations, or	handling ion is nee the Can	. In eded, adian	
8.4	Eye Protection:	Wear protective eyewear (e.g., sa Always use protective eyewear w soft lenses may absorb and conce	hen clea	ning spill						oduct. izard;	0
8.5	Hand Protection:	If anticipated that prolonged & rep rubber gloves for routine industri appropriate standards of Canada,	eated sk al use.	in contac If neces	sary, refer						
8.6	Body Protection:	No special body protection is requirefer to appropriate standards of C	uired und	er typica	l circumsta				If neces	ssary,	
		9. PHYSICAL	8 CH	EMIC			TIFS				
9.1	Appearance:	Aerosol, clear liquid									
9.2	Odor:										
9.2	Odor Threshold:	Solvent odor									
9.3 9.4	pH:	NA									
9.4 9.5	Melting Point/Freezing Point:	10.8									
		NA									
9.6	Initial Boiling Point/Boiling Range:	66.1 °C (151 °F)									
9.7	Flashpoint:	- 26.11 °C (- 15 °F), based on pro	pellant								
9.8	Upper/Lower Flammability	UEL 7.7% / LEL 1.2%									
9.9	Limits: Vapor Pressure:										
9.9 9.10	Vapor Pressure. Vapor Density:	5.6 mmHg									
	Relative Density:	3 (Air = 1)									
9.11	-	0.678									
	Solubility: Partition Coefficient (log Pow):	Partially soluble									
		NA									
9.13											
9.13 9.14	Autoignition Temperature:	NA									
9.13 9.14 9.15	Autoignition Temperature: Decomposition Temperature:	NA									
9.13 9.14 9.15	Autoignition Temperature: Decomposition Temperature: Viscosity:										
9.13 9.14 9.15 9.16	Autoignition Temperature: Decomposition Temperature:	NA	pration R	ate 8.1 (E	ther = 1)						
9.13 9.14 9.15 9.16	Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA				VITY					
9.12 9.13 9.14 9.15 9.16 9.17 10.1	Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA Percent volatile (vol) 100%. Evapo	BILIT	Y & R	EACTI						
9.13 9.14 9.15 9.16 9.17 10.1 10.2	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products:	NA NA Percent volatile (vol) 100%. Evapo 10. STA Relatively stable under ambient co If exposed to <u>extremely high tem</u> gases (e.g., oxides of carbon & ni	BILIT onditions	Y&R when sto		rly.	mposition	may inc	lude irrita	ating vap	pors and toxic
9.13 9.14 9.15 9.16 9.17 10.1 10.2	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products: Hazardous Polymerization:	NA NA Percent volatile (vol) 100%. Evapo 10. STA Relatively stable under ambient co If exposed to <u>extremely high tem</u> gases (e.g., oxides of carbon & nit Will not occur.	BILIT onditions peratures trogen).	Y&R when sto s, produc	EACTI ared proper of them	rly. mal decc					pors and toxi
9.13 9.14 9.15 9.16 9.17 10.1 10.2	Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information: Stability: Hazardous Decomposition Products:	NA NA Percent volatile (vol) 100%. Evapo 10. STA Relatively stable under ambient co If exposed to <u>extremely high tem</u> gases (e.g., oxides of carbon & ni	BILIT onditions perature trogen). mperatur	Y&R when sto <u>s</u> , produc	EACTIN ared proper tts of them apatible ch	rly. mal decc nemicals,					pors and toxi



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11.1	Routes of Entry:	Inhalation: YES Absorption: YES	Ingestion: YES
11.1	Toxicity Data:	120	
11.2	TOXICILY Data.	This product has NOT been tested on animals to obtain toxicology data. Toxico available for some of the components of the product and is presented below.	ology data, found in scientific literature,
		products and materials (available from scientific literature), the acute toxicity of the	
		\underline{n} -Hexane: LD ₅₀ (oral, rat) > 16,000 mg/kg; LD ₅₀ (dermal, rabbit) > 2,000 mg/kg;	
		Isopropyl Alcohol: Log K _{OW} = 0.05-0.14. Isopropyl alcohol occurs naturally; it is of plant and animal wastes. When released on land or water, it is apt to volatilize	
		in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.	e and biodegrade. The estimated hair-in
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas.	
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).	
11.5	Suspected Carcinogen:	None of the components are listed as a carcinogen or suspect carcinogen by IA	RC. NTP. ACGIH or OSHA.
		WARNING: This product can expose you to chemicals including n-Hexane, wh	
		cause birth defects or other reproductive harm. For more information, go to www	
11.6	Reproductive Toxicity:	WARNING: This product can expose you to chemicals including N-Hexane, wh	
		cause birth defects or other reproductive harm. For more information, go to www	
	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	
12.1	Environmental Stability:	n-Hexane: Readily Biodegradable (83%, 28 days)	
12.2	Effects on Plants & Animals:	There are no specific data available for this product.	
12.3	Effects on Aquatic Life:	<u>n-Hexane</u> : LC_{50} (96h, <i>Fathead minnow</i>) 2.5 mg/L; EC_{50} (48h, <i>Daphna magna</i>)	2.1 mg/l · Ebl 50 (72h Green algae) 2
		13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to	determine ourrent statue and appropriat
	Tracto Disposali	disposal method for the ingredients listed in Section 2. Any disposal practice mu	
		federal laws and regulations. Contact the appropriate agency for specific inform	
		disposal of hazardous waste must be provided by a licensed facility or waste ha	
13.2	Special Considerations:	U.S. EPA Waste Number: D001 (characteristic - ignitable)	
		14. TRANSPORTATION INFORMATION	
The	action description (ID Number	; proper shipping name, hazard class & division, packing group) is shown for each mode of tra	
		/ICAO, IMDG and the CTDGR.	
14.1	49 CFR (GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or	
		CONSUMER COMMODITY, ORM-D (IP VOL \leq 1.0 L) – until 12/31/20	\sim
14.2	IATA (AIR)*:	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL \leq 1.0 L); or	
	· · /		<u></u>
14.3	IMDG (OCN):	CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L)	
14.5		UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	\square
			•
14.4	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	
		0N1930, AEROSOES, 2.1 (ETD Q11, 11 VOE 3 1.0 E)	\checkmark
	ADR/RID (EU):		\checkmark
14.5		UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL \leq 1.0 L)	
14.5			
	SCT (MEXICO):		
	SCT (MEXICO):	UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L)	
14.5 14.6 14.7	SCT (MEXICO): ADGR (AUS):	UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L)	<u></u>
14.6		UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L) UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	\bigcirc



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	15. REGULATORY INFORMATION							
15.1	SARA Reporting Requirements:	This product contains <u>Hexane</u> and <u>Isopropyl Alco</u> requirements.	hol, substances subject to SARA Title III, Section 313 reporting					
15.2	SARA TPQ:	There are no specific Threshold Planning Quantit	ies for the components of this product.					
15.3	TSCA Inventory Status:	The components of this product are listed on the						
15.4	CERCLA Reportable Quantity:	<u>Hexane</u> : 2,270 kg (5,000 lbs)						
15.5	Other Federal Requirements:	NA						
15.6	Other Canadian Regulations:	all of the information required by the CPR. T	e hazard criteria of the CPR and the SDS contains he components of this product are listed on the oduct are listed on the Priorities Substances List. ic Effects)					
15.7	State Regulatory Information:	Substances List (MA), Minnesota Hazardous Su Permissible Exposures List (WA). <u>Isopropyl Alcohol</u> is found on the following state or <u>Carbon Dioxide</u> is found on the following state or No other ingredients in this product, present in a criteria lists: California Proposition 65 (CA65), I List (FL), Massachusetts Hazardous Substances Substances List (MN), New Jersey Right-to-Kno Right-to-Know List (PA), Washington Permissible WARNING : This product can expose you to che						
15.8	Other Requirements:	WARNING: This product can expose ye	ou to chemicals including n-Hexane, which is known to the State of or other reproductive harm. For more information, go to					
		16. OTHER INFO						
16.1	Other Information:	FLAMMABLE LIQUID AND VAPOR. CAUSES CAUSE DROWSINESS OR DIZZINESS. TOXIC from heat, hot surfaces, sparks, open flames and non-sparking tools. Take action to prevent static handling. Use only outdoors or in a well-w gloves/protective clothing/eye protection/face pro clothing. Rinse skin with water or shower. Spec medical advice/attention. IF INHALED: Remove p cautiously with water for several minutes. Remove irritation persists: Get medical advice or attention fire: use Alcohol Resistant-Foam, CO ₂ , or Wate Keep container tightly closed. Keep cool. Store lo KEEP OUT OF REACH OF CHILDREN. WARNING: This product can expose y	DL. PRESSURIZED CONTAINER; MAY BURST IF HEATED. HIGHLY SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Keep away other ignition sources. No smoking. Keep container tightly closed. Use c discharges. Avoid breathing mist/vapor/spray. Wash thoroughly after entilated area. Avoid release to the environment. Wear protective btection. IF ON SKIN (or hair): Take off immediately all contaminated fic treatments see section 4 of this SDS. If skin irritation occurs: Get berson to fresh and keep comfortable for breathing. IF IN EYES: Rinse ove contact lenses if present and easy to do. Continue rinsing. If eye n. Take off contaminated clothing and wash it before reuse. In case of er Jet to extinguish. Collect spillage. Store in a well-ventilated place. cked up.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.						
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to C government regulations must be reviewed for app LLC knowledge, the information contained herein completeness is not guaranteed and no warra information contained herein relates only to the s	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other blicability to this product. To the best of ShipMate's & Birchwood Casey, is reliable and accurate as of this date; however, accuracy, suitability or inties of any type, either expressed or implied, are provided. The pecific product(s). If this product(s) is combined with other materials, all ta may be changed from time to time. Be sure to consult the latest					
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	BIRCHWOOD CASEY ®					
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	Cangerous Goods Training & Consulting					



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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:

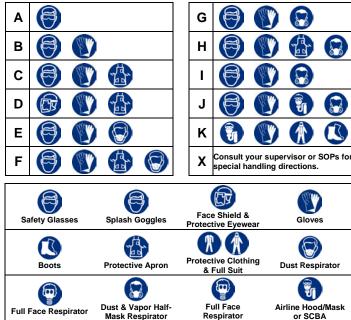
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

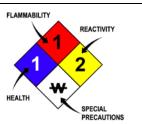
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
W	Use No Water	
ох	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD 50	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC 50	LC ₅₀ Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	ppm Concentration expressed in parts of material per million parts			
TD _{Io}	TD _{Io} Lowest dose to cause a symptom			
TCLo	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 ₀ , LC ₁₀ , & LC ₀				
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			
$\log K_{ow}$ or $\log K_{oc}$	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:

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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:

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