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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 11/29/2018

1.1	T 5		PRODUC											
	Product Name:	GUN SC	CRUBBER	SYNTHE	TIC SA	AFE F	FIRE	ARM	I CL	EAI	NER	(AE	ROS	OL)
2	Chemical Name:	Aerosol												
3	Synonyms:		27, 33340, 33342											
ļ	Trade Names:		er Synthetic Saf	e Firearm Clea	ner (Aerc	osol)								
	Product Use:		arm Cleaner											
;	Distributor's Name:	Birchwood C												
•	Distributor's Address:		rk Drive, New H											
3	Emergency Phone:	ChemTred	+1 (800) 424-	9300 / +1 (70	3) 527-	3887 or	Poise	on Co	ntrol	Cent	er +1	(866)	291-7	152
)	Business Phone / Fax:	+1 (952) 388	8-6717											
			2 4	AZARDS	IDENIT		A TIO	NI.						
1	Hazard Identification:	This was don									a d'ann	(- (l	-1'C	
•	Tazara dominadari.	[NOHSC: 10 DANGER! CAUSES SI	This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER MAY BURST IF HEATED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Classification: Aerosol 1; Flam. Liq. 3; Asp. Tox. 1; Skin Sens.2; Eye Irrit. 2.											
.2	Label Elements:	burst if heating precautions and other ic source. If fume/gas/m Do not eat, ventilated a P302+P352 Section 4 advice/atter P304+P340 P312 — Ca Rinse cautic Continue rir	ements (H): H2 ed. H315 – Cau ary Statements (gnition sources. P251 – Do no iist/vapors/spray, drink or smoke area. P280 – Wo 2 – IF ON SKIN: of this Safety ition. P362+P3 0 – IF INHALED III a POISON CI cously with water asing. P337+P3 i well-ventilated	ses skin irritation P): P210 – K No smoking. To pierce or P264 – Wash when using Bar protective of Wash with pler Data Sheet. Character pe ENTER/doctor for several mir The server of the server of the several mir The server of the server of the several mir The server of the server	on. H319 leep awa P211 – E burn, e n thoroug this prod gloves/pro nty of soa P332+P erson to f if you fe nutes. Relation persool. P410	O – Caus y from h Oo not sp ven aft hly with uct. P2 otective ap and w 313 – I minated fresh air sel unwe move co sists: gel 0+P412 -	es serineat, he pray or er use soap a 271 – Colothine rand lell. P3 entact let medic – Prote	ous ey ot surfa an ope. P: and wat Only us g/eye p irritati ng and keep c enses, al advi	e irrita ace, sp en flar 261 - er afte se out orotect Speci on oc d was omfort 51+P3 if pres ce/atte n sunlight	tion. parks, me or Avo r handoors ion/fa fic tre curs: h it I able ant ar ention ght. [, open other oid br dling. or in ce pro eatmen Get before for bro IF IN nd eas . P40	flame: ignition eathing P270 - a well stection at - See medica reuse eathing EYES y to do 3+P230 expose	s n g	
3	Other Warnings:	to temperal contents/co WARNING: cause birth In the event center, who KEEP OUT	tures exceeding ntainer to license This product ca defects or other t of an exposure may seek advice OF REACH OF	es treatment, so n expose you reproductive had or medical ince from the U.S. CHILDREN.	torage an to chemic arm. For r quiry invo manufac	nd dispose cals inclumore info lving thi cturer, ar	sal faci uding N ormatic s produ nd show	lity (TS N-Hexa on, go t uct, ple w them	DF). ne, who www. ease co	nich is /.P65\ ontact DS.	know Warnir	n to th	e State	
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 11/29/2018 4. FIRST AID MEASURES First Aid: DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison Ingestion: Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists Skin: and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, temporary gastrointestinal irritation. Vomiting and/or diarrhea. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Inhalation: None expected. 4.3 Symptoms of Overexposure: Nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Eyes: Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Frostbite Skin: like symptoms. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals Acute Health Effects: 44 Moderate irritation to eyes. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Chronic Health Effects: 4.5 No harmful or chronic health effects are expected to occur from a single accidental ingestion. 4.6 Target Organs: Eyes, Skin 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the target **HEALTH** 2 Aggravated by Exposure: organs (eyes, skin, and respiratory system). **FLAMMABILITY** 4 0 PHYSICAL HAZARDS PROTECTIVE EQUIPMENT В **EYES** SKIN LUNGS 5. FIREFIGHTING MEASURES EXTREMELY FLAMMABLE AEROSOL. Level 3 Aerosol (NFPA 30B). Aerosols may burst at Fire & Explosion Hazards: temperatures above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. Do not use in presence of open flames or sparks. Do not place in hot water or near radiators, stoves or other sources of heat. Exposure to heat or sunlight may cause cans to burst and propel contents. Water from fog nozzles may be helpful in cooling un-ruptured containers to prevent build-up Extinguishing Methods: 5.2 CO2, Halon (if permitted), Dry Chemical, Foam, as authorized. This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and Firefighting Procedures decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective 6.1 Spills: For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> ≥ 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.



10.5 Incompatible Substances:

SAFETY DATA SHEET

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	CASEY	SAFEI	YU	AIA	A St	166	: I			BC-055	;
Prepa	ared to OSHA, ACC, AN	SI, NOHSC, WHMIS, GHS & 1272/2	008/EC	Standards	s S	DS Revi	sion: 1.0	SD	S Revisio	n Date: 1	1/29/2018
		7. HANDLING									
7.1	Work & Hygiene Practices:	Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a wel 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 heat, open flames, sparks, and of Section 10. Do not store in dam when not in use. Open slowly on therefore, empty containers should face, this product should not be st	other pos naged or a level, s d be hand	ssible so unmarke table surl dled with	urces of iged contain face. Emplocare. As	gnition. ers or st ety contai a precaut	Keep awa orage dev ners may tion agains	ay from i vices. Ke contain re st exposu	ncompati eep conta esidual au re to the	ble mate ainers se mounts of eyes, nos	rials listed curely clos f this produ
7.3	Special Precautions:	Do not store where temperatures unattended. Clean all spills promp	s can ex								hazard if I
		8. EXPOSURE CONT	ROLS	& PE	RSON	AL PI	ROTEC	CTION			
8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA
		n-HEXANE	50	1000	20	72	NF	500	NA	1100	400 1007
		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	or natura	l ventilat and prev	ion is suff rent buildu	icient wh	nen this poors or m	roduct is ist gener	in use. ated fror	Use loc	al or gene
8.3	Respiratory Protection:	product. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. No special respiratory protection is required under typical circumstances of use or handling. 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									
8.4	Eye Protection:	Australia.	foti aloo	aaa uuith	aida ahial	4) at all t	imaa wha	n handlin	a thia ar	duct	
J. T	Lye i rotection.	Wear protective eyewear (e.g., sa Always use protective eyewear w soft lenses may absorb and conce	hen clea	ning spill						azard;	
8.5	Hand Protection:	If anticipated that prolonged & reprubber gloves for routine industriappropriate standards of Canada,	al use.	If neces	sary, refe						
8.6	Body Protection:	No special body protection is requirefer to appropriate standards of C							If neces	ssary,	
		0 DUVELCAL	9 CH		AL DD		TIFC				
<u> </u>	Γ.	9. PHYSICAL	а Сп		AL PRI	JPER	IIEO				
9.1	Appearance:	Aerosol, liquid									
9.2	Odor:	Mild odor									
9.3	Odor Threshold:	NA									
9.4	pH:	10.8									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling	66.1 °C (151 °F)									
9.7	Range: Flashpoint:	` '	!! (
9.8	Upper/Lower Flammability	- 26.11 °C (- 15 °F), based on pro	pellant								
5.0	Limits:	UEL: NA / LEL: 1.2%									
9.9	Vapor Pressure:	5.6 mmHg									
9.10	Vapor Density:	3 (Air = 1)									
9.11	Relative Density:	5.9 lbs/gal									
9.12	Solubility:	ND									
9.13	Partition Coefficient (log Pow):	NA									
.14	Autoignition Temperature:	NA									
).15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA NA									
9.17	Other Information:	Percent volatile (vol) 100%.									
		. , ,									
10.1	Stability:	10. STA									
10.1	Hazardous Decomposition	Relatively stable under ambient co							duda !!!	otio · · ·	010 5:
10.2	Products:	If exposed to extremely high tem gases (e.g., oxides of carbon & nit		<u>s</u> , produc	cts of ther	mai deco	omposition	n may inc	iuae irriti	ating vap	ors and to
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Exposure or contact to extreme te	mperatu	res, incon	npatible ch	nemicals.	strong lia	ht source	s, sparks	, flame.	
10.5	Incompatible Substances:	Strong oxidizers peroxides or stro	_						, -	,	

Strong oxidizers, peroxides or strong acids. Heat, sparks, and flames.



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Toxicity: iic Toxicity: ected Carcinogen: eductive Toxicity: genicity: yotoxicity: ogenicity: ductive Toxicity: cy of Product: gical Exposure Indices:	Routes of Entry: Toxicity Data: Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Interact of Productive Toxicity: Interact of Productive Toxicity: Interact of Productive Toxicity:	11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES This product has NOT been tested on animals to obtain toxicology data. Toxicolog available for some of the components of the product and is presented below. Ba products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this product is not expected to bioconcurs naturally; it is gen of plant and animal wastes. When released on land or water, it is apt to volatilize are in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate. Moderate irritation to eyes and skin near affected areas. This material may aggravate any pre-existing skin condition (e.g., dermatitis). None of the components are listed as a carcinogen or suspect carcinogen by IARC, WARNING: This product can expose you to chemicals including N-Hexane, which cause birth defects or other reproductive harm. For more information, go to www.PG WARNING: This product can expose you to chemicals including N-Hexane, which cause birth defects or other reproductive harm. For more information, go to www.PG 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.	ased on animal test results for similar product is expected to be: (inh 4h, rat) > 31.86 mg/L. (inerated during microbial degradation and biodegrade. The estimated half-life) NTP, ACGIH or OSHA. Is known to the State of California to assume the state of California to
Toxicity: iic Toxicity: ected Carcinogen: eductive Toxicity: genicity: yotoxicity: ogenicity: ductive Toxicity: cy of Product: gical Exposure Indices:	Acute Toxicity: Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	Inhalation: YES Absorption: YES This product has NOT been tested on animals to obtain toxicology data. Toxicolog available for some of the components of the product and is presented below. Be products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this products and materials (available from scientific literature), the acute toxicity of this product is not expected to bioconcurs naturally; it is gen of plant and animal wastes. When released on land or water, it is apt to volatilize are in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate. Moderate irritation to eyes and skin near affected areas. This material may aggravate any pre-existing skin condition (e.g., dermatitis). None of the components are listed as a carcinogen or suspect carcinogen by IARC, WARNING: This product can expose you to chemicals including N-Hexane, which cause birth defects or other reproductive harm. For more information, go to www.PG WARNING: This product can expose you to chemicals including N-Hexane, which cause birth defects or other reproductive harm. For more information, go to www.PG This product is not reported to produce mutagenic effects in humans. This product is not reported to cause teratogenic effects in humans.	gy data, found in scientific literature, is ased on animal test results for similar product is expected to be: 50 (inh 4h, rat) > 31.86 mg/L. Iterated during microbial degradation and biodegrade. The estimated half-life NTP, ACGIH or OSHA. It is known to the State of California to 65Warnings.ca.gov. Its known to the State of California to
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cy of Product: gical Exposure Indices:		This product is not reported to cause reproductive effects in humans	
gical Exposure Indices:	Irritancy of Product:	This product is not reported to cause reproductive effects in numbers.	
	initality of Floduct.	See Section 4.2	
cian Recommendations:	Biological Exposure Indices:	NE	
	Physician Recommendations:	Treat symptomatically.	
		12. ECOLOGICAL INFORMATION	
onmental Stability:	Environmental Stability:	n-Hexane: Readily Biodegradable (83%, 28 days)	
	Effects on Plants & Animals:	There are no specific data available for this product.	
	Effects on Aquatic Life:	n-Hexane: LC ₅₀ (96h, Fathead minnow) 2.5 mg/L; EC ₅₀ (48h, Daphna magna) 2.1 mg/L	I mg/L; EbL50 (72h, Green algae) 26
		13. DISPOSAL CONSIDERATIONS	
e Disposal:	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to det disposal method for the ingredients listed in Section 2. Any disposal practice must be federal laws and regulations. Contact the appropriate agency for specific information disposal of hazardous waste must be provided by a licensed facility or waste hauler	be in compliance with local, state, and on. Treatment, transport, storage and
al Considerations:	Special Considerations:	U.S. EPA Waste Number: D001 (characteristic - ignitable)	
		14. TRANSPORTATION INFORMATION	
escription (ID Number	pasic description (ID Number	r, proper shipping name, hazard class & division, packing group) is shown for each mode of transp	portation. Additional descriptive information
ired by 49 CFR, IATA	be required by 49 CFR, IAT	A/ICAO, IMDG and the CTDGR.	
R (GND):	49 CFR (GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/20	\Diamond
AIR)*:	IATA (AIR)*:	UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L)	♦ ��or ♦ ��
	IMDG (OCN):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	\Diamond
(OCN):	TDGR (Canadian GND):	UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	Ò
		UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L)	- Č
(Canadian GND):	ADR/RID (EU):	UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L)	Ŏ
(Canadian GND):	ADR/RID (EU): SCT (MEXICO):	UN1950, AEROSOLS, 2.1 (LTD OTY IP VOL. < 1.0 L.)	Ŏ
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 11/29/2018

		15. REGULATORY INFORMATION				
15.1	SARA Reporting	This product contains Hexane and Isopropyl Alcohol, substances subject to SARA Title III, Section 313 reporting				
10.1	Requirements:	requirements.				
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.				
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.				
15.4	CERCLA Reportable	Hexane: 2,270 kg (5,000 lbs)				
15.5	Quantity: Other Federal Requirements:	NA				
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS B5, D2B (Flammable Aerosol, Other Toxic Effects)				
15.7	State Regulatory Information:	Hexane is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), Pennsylvania Right to Know (PA) and Washington Permissible Exposures List (WA). Isopropyl Alcohol is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. Carbon Dioxide is found on the following state criteria list: FL, MA, MN, PA, and WA. 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). WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.				
15.8	Other Requirements:	WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.				
		16. OTHER INFORMATION				
		FLAMMABLE LIQUID AND VAPOR. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist/vapor/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Specific treatments see section 4 of this SDS. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh and keep comfortable for breathing. 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 or attention. Take off contaminated clothing and wash it before reuse. In case of fire: use Alcohol Resistant-Foam, CO ₂ , or Water Jet to extinguish. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. KEEP OUT OF REACH OF CHILDREN. WARNING: This product can expose you to chemicals including N-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.				
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Birchwood Casey, LLC knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.				
16.4	Prepared for:	Birchwood Casey, LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com				



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 11/29/2018

DEFINITION OF TERMS

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

GENERAL INFORMATION:

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

EXPOSURE LIMITS IN AIR:

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

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

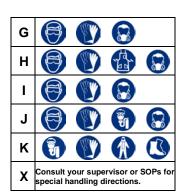
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

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В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Е			
F		THE PERSON NAMED IN COLUMN TO PERSON NAMED I	





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

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	\sim 1 \times 2 \rightarrow
ALK	Alkaline	
COR	Corrosive	/ \ \ \ \
₩	Use No Water	HEALTH
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

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)		\odot	(4)		
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			\diamondsuit		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment