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**BC-043** Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 11/29/2018 1. PRODUCT & COMPANY IDENTIFICATION 1 1 Product Name: SYNTHETIC GUN OIL 1.2 Chemical Name 1.3 Synonyms 44121<u>,</u> 44123, 44128 1.4 Trade Names: Synthetic Gun Oil Product Use: 1.5 Gun Oil Distributor's Name: 1.6 Birchwood Casey, LLC Distributor's Address: 3260 Winpark Drive, New Hope, MN., 55427 USA 1.7 ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 1.8 Emergency Phone: +1 (952) 388-6717 1.9 Business Phone / Fax: 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: 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! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. Classification: Asp. Tox. 1; Skin Sens.2; Eye Irrit. 2. 22 Label Flements: Hazard Statements (H): H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. Precautionary Statements (P): P264 – Wash thoroughly with soap and water after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Only use outdoors or in a wellventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P331 - Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P321 -Specific treatment - See Section 4 of this Safety Data Sheet. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P304+P340 - IF INHALED: Remover person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor if you feel unwell. 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. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF). Other Warnings: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC **OSHA** ppm ppm ppm FS-FS-FS-CHEMICAL NAME(S) RTECS No. EINECS No. TLV STEL PEAK STEL IDLH OTHER CAS No. TWA STEL DISTILLATES (PETROLEUM), 80-100 OIL MIST 64742-53-6 NA 265-156-6 (5) (10) (5) NA NA (5) NA NA HYDROTREATED LIGHT Carc. 1B; H350 NAPHTHENIC ' 67-63-0 400 500 NF 400 500 2000 400 TWA NT8050000 200-661-7 0-5 ISOPROPYL ALCOHOL \* contains less than 3% Dimethyl Sulfoxide (DMSO)

### 4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison 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 risk of aspiration.
		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.
		Skin:	Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.
		Inhalation:	Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.



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		4. FIRST AID MEASURES – cont'd				
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, temporary gastrefuses: Moderately irritating to the eyes. Symptoms of overexpos				
		watering.  Skin: May be irritating to skin. The product can cause allergic s	kin reactions	s (e.g., rashe	es, welts, derm	atitis) in
		some sensitive individuals.  Inhalation: None expected.				
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes.  Skin: Redness, burning, itching, rash, and scaling of the skin (der	matitis).			
		Ingestion: Nausea, vomiting, severe abdominal pain. Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous	membranes	, difficulty bre	eathing.	
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additional drowsiness, dizziness, headaches and nausea.				n cause
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.				
4.6	Target Organs:	Eyes, Skin, Respiratory System				
4.7	Medical Conditions	Persons with pre-existing skin disorders, eye problems, or impaired	HEALTH			3
	Aggravated by Exposure:	kidney function may be more susceptible to the effects of the substance.	FLAMMA	ARII ITY		1
					ne .	
				AL HAZARI		0
				TIVE EQUI		В
			EYES	SKIN	LUNGS	
		5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:	This product is not flammable. However, if involved in a fire, this prod temperatures to form toxic gases (e.g., CO, CO <sub>x</sub> ).	luct may ded	compose at	high	
5.2	Extinguishing Methods:	Carbon dioxide, foam, low velocity water fog, Halon (if permitted), dry che	mical exting	uisher.		
5.3	Firefighting Procedures:	As with any fire, firefighters should wear appropriate protective equipment approved or equivalent self-contained breathing apparatus (SCBA) and bot sill blazed up decomposition products may be released. The most	protective cl	lothing. Trea		
		hot oil. Hazardous decomposition products may be released. Therma oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use wate surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.	should be fo er spray to c	ught from a sool fire-expo	luce safe osed	
		oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water	should be fo er spray to c n fire control	ught from a sool fire-expo	luce safe osed	
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASURE  Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION – may be slippery if spilled.	should be four spray to confire control  ES  p must wea	ught from a scool fire-expo l or dilution f	luce safe ssed irom	
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASURE  Before cleaning any spill or leak, individuals involved in spill cleanure.	protective eposal. Disposal. Disposal individuals.	ught from a scool fire-export or dilution for a spropriate equipment (expose of proper with pler). Dike and up. Transfer sal. Remove	tice safe safe seed from the Personal Programmer of the Personal Programmer	gloves). rial with nce with ater and rith inert iners for clothing
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASURE  Before cleaning any spill or leak, individuals involved in spill cleanup Equipment. CAUTION – may be slippery if spilled.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for discord, state and federal regulations. Wash all affected areas and outside soap. Remove any contaminated clothing and wash thoroughly before received in the spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for peromptly and wash affected skin areas with soap and water. Keep spills and open bodies of water.	protective eposal. Disposal. Disposal individuals.	ught from a scool fire-export or dilution for a spropriate equipment (expose of proper with pler). Dike and up. Transfer sal. Remove	tice safe safe seed from the Personal Programmer of the Personal Programmer	gloves). rial with nce with ater and rith inert iners for clothing
	Spills:  Work & Hygiene Practices:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASURE  Before cleaning any spill or leak, individuals involved in spill cleanup Equipment. CAUTION – may be slippery if spilled.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for discord, state and federal regulations. Wash all affected areas and outside soap. Remove any contaminated clothing and wash thoroughly before recovery large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for performently and wash affected skin areas with soap and water. Keep spills	protective es of ignition use. I individuals. I and cleanuring and	ught from a scool fire-export or dilution for a spropriate equipment (expose of proper with pler). Dike and up. Transfer sal. Remove ing runoffs of see in a well-vesting a well-vesting runoffs of see in a well-vesting runoffs of se	tice safe safe sed from the Personal Property of warm was contain spill will be contained to the contain spill will be contained to the contain spill will be contained to the con	gloves). rial with nce with ater and rith inert ners for clothing sewers
7.1		oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire s distance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASURE  Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION − may be slippery if spilled.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for disclosed, state and federal regulations. Wash all affected areas and outsid soap. Remove any contaminated clothing and wash thoroughly before return large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for peromptly and wash affected skin areas with soap and water. Keep spills and open bodies of water.  7. HANDLING & STORAGE INFORMATI  Avoid prolonged contact with the product. Avoid breathing vapors of this local exhaust ventilation, fans). After use, wash hands and exposed shades.	protective eves of ignition posal. Dispute de formation of containuse. If individuals, and cleanus proper disposal and cleanus product. Use kin with soal product of cleanus product of clea	ught from a scool fire-export or dilution for dilution for a appropriate equipment (exports a consideration of the process of proper with pler consideration of the process of this process of this process of this process of the proc	tree Personal Present	gloves). rial with nce with ater and rith inert riners for clothing sewers  on (e.g., drink or ontainer , empty her light



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	1	8. EXPOSURE CONT			RSON		ROIE	HON			T
.1	Exposure Limits: ppm (mg/m³)		AC	GIH I		NOHSC ES-	ES-		OSHA		OTHER
	ppin (mg/m )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		DISTILLATES (PETROLEUM),	(5)	(40)	(E)	NIA	NIA	(5)	NIA	NIA.	OII MICT
		HYDROTREATED LIGHT NAPHTHENIC	(5)	(10)	(5)	NA	NA	(5)	NA	NA	OIL MIST
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA
.2	Ventilation & Engineering	Use local or general exhaust vent	tilation to	effective	ly remove	and pre	vent build	up of vap	ors or m	ist gener	ated from
	Controls:	handling of this product. Ensure a station).									ver, eye-wa
.3	Respiratory Protection:	No special respiratory protection									
		necessary, use only respiratory									
		§1910.134, or applicable U.S. sta E.C. member states, or Australia.	te regula	tions, or	tne appro	priate sta	indards of	Canada,	, its provi	inces,	
3.4	Eye Protection:	Wear protective eyewear (e.g., sa	ıfety alas	ses with	side-shiel	d) at all t	imes whe	n handlin	a this nr	oduct	_
	_,	Always use protective eyewear wh									
		lenses may absorb and concentra								.,	
3.5	Hand Protection:	If anticipated that prolonged & rep	eated sk	in contac	t will occu	ır during	use of this	product	, wear la	tex or	
		rubber gloves for routine industr	ial use.	If necess	sary, refer						
		appropriate standards of Canada,								2	
8.6	Body Protection:	No apron required when handling									
		wash stations and deluge showe clothing are recommended when									
		product. Upon completion of work									
		areas thoroughly with soap and wa		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	g laigo qu		i iiio proc	idot, Wdo.	i any oxy	0000	
					AL DD	<u> </u>	TIFO				
		9. PHYSICAL	& CH	EMIC.	AL PR	OPER	IIES				
9.1	Appearance:	Yellow oily liquid									
9.2	Odor:	Solvent odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	260 °C (500 °F)									
9.7	Flashpoint:	232.22 °C (450 °F) COC									
9.8	Upper/Lower Flammability	UEL: 7%: LEL 1%									
9.9	Limits: Vapor Pressure:	0.01 mmHg									
9.10	Vapor Density:	> 1 (Air = 1)									
9.11	Relative Density:	0.9									
9.12	Solubility:	Slightly soluble									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	VOC: 20%									
		40.074	DII IT	V 0 D	FAOTI	\/I <b>T</b> \/					
10.1	Oral Blow	10. STA									
10.1	Stability: Hazardous Decomposition	Relatively stable under ambient co				•			lead a lumite	_4:	4-
10.2	Products:	If exposed to extremely high tem gases (e.g., metallic oxides, oxide				mai decc	mposition	may inc	iuae irrit	ating vap	ors and to
10.3	Hazardous Polymerization:	Will not occur.	3 OI Caibi	JII & IIIII	gen).						
10.4	Conditions to Avoid:	Exposure or contact to extreme te	mneratur	es incon	nnatible ch	emicale	strong ligi	nt source	s sparke	flame	
10.5	Incompatible Substances:	Strong oxidizers, peroxides or stro	•	•	ipatible of	iorriiodio,	onong ngi	i. Jourde	o, opaino	, name.	
			•								
		11. TOXICO	LOGI	CALI			ON	_		1	
11.1	Routes of Entry:	Inhalation: YES			Absorption:			<u> </u>	Ingesti		
11.2	Toxicity Data:	This product has NOT been tested									
		available for some of the compor									
		products and materials (available the Hydrotreated Light Naphthenic Pe								CI <del>C</del> U IO DE	<del>.</del>
		Isopropyl Alcohol: Log K <sub>OW</sub> = 0.05								nicrobial d	degradatio
		of plant and animal wastes. When									
	ì	in water is 5.4 days. Isopropyl alc			,				J		



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		11. TOXICOLOGICAL INFORMATION – cont'd					
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.					
11.4	Chronic Toxicity:	This material may aggravate any pre-existing skin condition (e.g., dermatitis).					
11.5	Suspected Carcinogen:	This product contains a severely hydrotreated mineral oil with less than 3% DMSO extract as measured by IP 346 and is not considered a carcinogen.					
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans.					
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.					
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.					
	Teratogenicity: This product is not reported to cause teratogenic effects in humans.						
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.					
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.					
11.8	Biological Exposure Indices:	NE NE					
11.9	Physician Recommendations:	Treat symptomatically.					
		12. ECOLOGICAL INFORMATION					
12.1	Environmental Stability:	Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any					
	,	contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.					
12.2	Effects on Plants & Animals:	There are no specific data available for this product. An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products.					
12.3	Effects on Aquatic Life:	Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can					
		reduce oxygen content in the water possibly below levels necessary to support marine life.					
		13. DISPOSAL CONSIDERATIONS					
13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and					
		appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.					
13.2	Special Considerations:	U.S. EPA Waste Number: D001 (characteristic - ignitable)					
	'	O.O. EL ATTRACTO Transport Doo't (ortalizationalis Igritabile)					
		14. TRANSPORTATION INFORMATION					
The b	pasic description (ID Number,	proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information					
may l	pe required by 49 CFR, IATA/I	CAO, IMDG and the CTDGR.					
14.1	49 CFR (GND):	NOT REGULATED					
14.2	IATA (AIR):	NOT REGULATED					
14.3	IMDG (OCN):	NOT REGULATED					
14.4	TDGR (Canadian GND):	NOT REGULATED					
14.5	ADR/RID (EU):	NOT REGULATED					
14.6	SCT (MEXICO):	NOT REGULATED					
14.7	ADGR (AUS):	NOT REGULATED					
		15. REGULATORY INFORMATION					
15.1	SARA Reporting Requirements:	This product contains <u>Isopropyl Alcohol</u> , a substance subject to SARA Title III, Section 313 reporting 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 Quantity:	NA					
15.5	Other Federal Requirements:	NA NA					
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class B5 (Flammable aerosols). WHMIS Class D2B (material causing other toxic effects).					



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		15. REGULATORY INFO	RMATION – cont'd		
15.7	State Regulatory Information:   Isopropyl Alcohol   is found on the following state criteria lists: FL, MA, MN, NJ, 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).				
15.8	Other Requirements:	NA			
		16. OTHER INFO	PRMATION		
16.1	Other Information:	EYE IRRITATION. Wash thoroughly with soap product. Only use outdoors or in a well-ventilate protection. IF SWALLOWED: Call a POISON SKIN: Wash with plenty of soap and water. Surritation occurs: Get medical advice/attention. Remover person to fresh air and keep comfortable IN EYES: Rinse cautiously with water for several	ERS AIRWAYS. CAUSES SKIN IRRITATION. CAUSES SERIOUS and water after handling. Do not eat, drink or smoke when using this ed area. Wear protective gloves/protective clothing/eye protection/face CENTER/doctor if you feel unwell. Do NOT induce vomiting. IF ON specific treatment — See Section 4 of this Safety Data Sheet. If skin Take off contaminated clothing and wash it before reuse. IF INHALED: bel for breathing. Call a POISON CENTER/doctor if you feel unwell. IF all minutes. Remove contact lenses, if present and easy to do. Continue ice/attention. Store in a well-ventilated place. Keep cool. Store locked OF CHILDREN.		
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.			
16.3	Disclaimer:	government regulations must be reviewed for Casey, LLC knowledge, the information contain suitability or completeness is not guaranteed an The information contained herein relates only	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood led herein is reliable and accurate as of this date; however, accuracy, d no warranties of any type, either expressed or implied, are provided to the specific product(s). If this product(s) is combined with other hisidered. Data may be changed from time to time. Be sure to consult		
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	ShipMate  ShipMate  Dangerous Goods  Training & Consulting		



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SDS Revision Date: 11/29/2018

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

SDS Revision: 1.1

#### **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.	RTECS No. Registry of Toxic Effects of Chemical Substances Number			
EINECS No.   European Inventory of Existing Commercial Chemical Substances N				

#### **EXPOSURE LIMITS IN AIR:**

ACGIH	American Conference on Governmental Industrial Hygienists	
IDLH	DLH 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

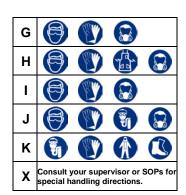
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Ε			
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	NE Not Established	
NF	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	FLAMMABILITY LIMITS IN AIR:				
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other source				
Temperature	of ignition				
LEL	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	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	$\sim$ 2			
ALK	Alkaline				
COR	Corrosive	/ <b>X W Y</b>			
₩	Use No Water	HEALTH			
OX	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTIONS			

#### TOXICOLOGICAL INFORMATION:

sed animals		
sed animal		
oarts		
Lowest dose to cause a symptom		
fects		

### 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	PSL Canadian Priority Substances List				
TSCA	SCA 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	<b>®</b>			$\Theta$	(%)		
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:

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