

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

## SAFETY DATA SHEET

SDS Revision: 1.0

Page 1 of 6 BC-041

SDS Revision Date: 10/25/2018

1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: BARRICADE RUST PREVENTIVE LIQUID 1.2 Chemical Name: NA 1.3 Synonyms: 33128, 33132 1.4 Trade Names: Barricade Rust Preventive Liquid 1.5 Product Use: **Rust Preventative** 1.6 Distributor's Name: Birchwood Casey, LLC Distributor's Address 1.7 3260 Winpark Drive, New Hope, MN., 55427 USA 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 Business Phone / Fax: 1.9 +1 (952) 388-6717 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. MAY CAUSE CANCER. FLAMMABLE LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Classification: Asp. Tox. 1, Flam. Liq. 3, Carc. 1A, Skin Sens. 1B, Eye Irrit. 2B 22 Label Elements: Hazard Statements (H): H304 - May be fatal if swallowed and enters airways. H350 - May Cause Cancer. H226 - Flammable liquid and vapor. H317 - May cause an allergic skin reaction. H320 -Causes eye irritation. Precautionary Statements (P): P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat. hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P261 - Avoid breathing fume/mist/vapors/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P264 - Wash thoroughly with soap and water 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]. 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. P308+P313 - IF exposed or concerned: Get medical advice/ attention. P370+P378 - In case of fire: Use Water, Foam, CO2, Dry Chemical to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container through licensed treatment, storage or disposal facility. 2.3 Other Warnings: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m<sup>3</sup>) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) RTECS No. EINECS No. TLV STEL TWA STEL PEAK PEI STEL IDLH OTHER CAS No. 64742-47-8 OA5504000 265-149-8 NF NF 55-70 NA NA NF (5)NA NA STODDARD SOLVENT Asp. Tox. 1; H304 HEAVY PETROLEUM NA NA 15-30 NA NA NA NF NF NF (5) NA NA OXYGENATES, BARIUM NEUTRALIZED 64742-52-5 NA 265-155-0 5-20 (5) (10) (5) NA NA (5) NA NA OIL MIST SEVERELY HYDROTREATED NAPHTHENIC PETROLEUM OIL \* Asp. Tox. 1; H304 PROPYLENE GLYCOL 107-98-2 UB7700000 203-539-1 1-5 100 150 100 NF NF 100 150 NA MONOMETHYL ETHER Flam. Liq. 3; STOT SE 3; H226, H336 \* < 3% DIMETHYL SULFOXIDE (DMSO) per IP346 4. FIRST AID MEASURES 41 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 risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: 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.



Page 2 of 6 **BC-041** 

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

SDS Revision: 1.0 S

		4. FIRST AID MEASURES – cont	'd	
4.2	Effects of Exposure:	Ingestion:         If product is swallowed, may cause nausea, temporary of Eyes:           Moderately irritating to the eyes.         Symptoms of overex watering.           Skin:         May be irritating to skin.         The product can cause allerg some sensitive individuals.	posure may include redness, itching, irrit	ation and
		Inhalation: None expected.		
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and irrit cause redness, itching and watering. The product can cause allergic prolonged or repeated exposure.	ation of affected areas. Overexposure in skin reactions (e.g., rashes, welts, dermat	eyes may titis) upon
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Addition drowsiness, dizziness, headaches and nausea.	onally, high concentrations of vapors ca	an cause
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.		
4.6 4.7	Target Organs:	Eyes, Skin, Respiratory System		
4.7	Medical Conditions Aggravated by Exposure:	Persons with pre-existing skin disorders, eye problems, or impaired kidney function may be more susceptible to the effects of the		3
		substance.		2
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	В
			EYES SKIN	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards: Extinguishing Methods:	This material can burn but will not readily ignite. This material will above the flash point temperature that can ignite when exposed to a s spaces, heated vapor can ignite with explosive force. Mists or spray below the flash point. Carbon dioxide, carbon monoxide, smoke, fur and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depe- use, low concentrations of hydrogen sulfide can be released. Dry Chemical, Foam, Carbon Dioxide, and Water Fog.	source of ignition. In enclosed ys may burn at temperatures nes, unburned hydrocarbons	
5.3	Firefighting Procedures:	Keep containers cool until well after the fire is out. Fight fires as for	surrounding materials. As in	
		any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.		
		6. ACCIDENTAL RELEASE MEASU	RES	
6.1	Spills:         Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g. apron, boots, etc.) to prevent skin contact.           Small Spills:         Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible inert material such as vermiculite or sand to soak up the product and place into a container for later disposal.           Large Spills:         Keep incompatible materials (e.g., oxidizers, strong acids, alkalis) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.			ning (e.g., nbustible, and away poropriate ontainers ed areas. nbustible, cording to
		7. HANDLING & STORAGE INFORMA	ATION	
7.1	Work & Hygiene Practices:	Eating, drinking and smoking should be prohibited in areas where Workers should wash hands and face before eating, drinking and smo equipment before entering eating areas. Do not ingest. Avoid contact or mist.	e this material is handled, stored and p king. Remove contaminated clothing and	protective
7.2	Storage & Handling:	Store in accordance with local regulations. Store in original containe well-ventilated area, away from incompatible materials (See Section 10 and sealed until ready for use. Containers that have been opened mu leakage. Do not store in unlabeled containers. Use appropriate contair	0) and food and drink. Keep container tigh st be carefully resealed and kept upright t	tly closed
7.3	Special Precautions:	Empty containers may contain product residue. Do not pressurize, empty containers without commercial cleaning or reconditioning.	cut, heat or weld empty containers. Do	not reuse



Page 3 of 6 **BC-041** 

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

SDS Revision: 1.0

		8. EXPOSURE CONT			ROON		NUIE				
3.1	Exposure Limits: ppm (mg/m <sup>3</sup> )		AC	GIH		NOHSC ES-	50		OSHA	-	OTHER
	ppm (mg/m <sup>+</sup> )	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	ES- PEAK	PEL	STEL	IDLH	
		STODDARD SOLVENT	NA	NA	NF	NF	NF	(5)	NA	NA	
		SEVERELY HYDROTREATED NAPHTHENIC PETROLEUM OIL *	(5)	(10)	(5)	NA	NA	(5)	NA	NA	OIL MIST
		contains less than 3% DMSO PROPYLENE GLYCOL MONOMETHYL ETHER	100	150	100	NF	NF	100	150	NA	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) of exhaust ventilation to effectively product. Ensure appropriate de Emissions from ventilation or work environmental protection legislation	remove contamin process on. In so	and prev ation eq equipme me cases	rent buildu uipment is ent should s, vapor c	ip of va availat be checl ontrols,	pors or m ble (e.g., s ked to ens	ist gener sink, safe ure they	rated fror ety show comply w	n the h er, eye ith the i	handling of th -wash station requirements
8.3	Respiratory Protection:	No special respiratory protection instances where mist or vapors of only protection authorized by 29 CAS Standard Z94.4-93 and ap Australia. Respirator selection mu the product and the safe working li	equipment will be necessary to reduce emissions to acceptable levels. No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors 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. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.								
8.4	Eye Protection:	Wear protective eyewear (e.g., sa Always use protective eyewear w soft lenses may absorb and conce	hen clea	ining spil							0
8.5	Hand Protection:	If anticipated that prolonged & rep rubber gloves for routine industri appropriate standards of Canada,	al use.	If neces	sary, refe						
8.6	Body Protection:	No apron required when handling wash stations and deluge showe large quantities of this product, wa	small qua rs should	antities. I be avai	When han lable. Up	on comp	pletion of	work acti			作 記
							TIEO				
		9. PHYSICAL				JPER	TIES				
9.1	Appearance:	Brown liquid impregnated in cloth	or in an a	applicatio	n pen						
9.2	Odor:	Kerosene like odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	148.8 °C (300 °F)									
9.7	Flashpoint:	43.8 °C (111 °F) CC									
9.8	Upper/Lower Flammability Limits:	UEL: 6 / LEL 1									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	>1 (Air = 1)									
9.11	Relative Density:	0.825									
9.12	Solubility:	Negligible									
9.13	Partition Coefficient (log Pow):	NA									
9.10	Autoignition Temperature:	335 °C (635 °F)									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	1.56 cSt (1.56 mm <sup>2</sup> /sec) at 40 °C	2 02 204	(2.02 ~~	$n^2/(coc)$ of	25.00					
9.17	Other Information:	VOC 70%	2.02 050	(2.02 11)	n /sec) at	25 °C					
		100 10%									
		10. STA	BILIT	Y & R	EACTI	VITY					
10.1	Stability:	This product is stable under norma									
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO <sub>2</sub> ) and c					6.				
	Hazardous Polymerization:	Will not occur.									
10.3	nazardodo i orymenzation.										
10.3 10.4	Conditions to Avoid:	Open flames, high heat and direct	sunlight.								



Page 4 of 6 **BC-041** 

1

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

SDS Revision: 1.0

11.1	Routes of Entry:	Inhalation:         YES         Absorption:         YES         Ingest	tion: NO				
11.1	Toxicity Data:	Inhalation:         YES         Absorption:         YES         Ingest           This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in         Toxicology data, found in         Toxicology data, found in	110				
11.2	Toxicity Data.	available for some of the components of the product and is presented below: $LD_{50}$ , (oral, rat): 5,130 mg/kg (Dipropylene Glycol Monomethyl Ether); 1,720 mg/kg (mono-Ethanol					
11.3	Acute Toxicity:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations 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 does not contain any chemicals known to the State of California to cause cancer, reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other				
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.					
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.					
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.					
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.					
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.					
11.7	Irritancy of Product:	See Section 4.2					
11.8	Biological Exposure Indices:	NE					
11.9	Physician Recommendations:	Treat symptomatically.					
		12. ECOLOGICAL INFORMATION					
12.1	Environmental Stability:	Analysis for ecological effects has not been conducted on this product. However, if spilled, contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating 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 b specific product. However, plants and animals may experience harmful or fatal effects when c based products.	een conducted on th coated with petroleur				
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 ca 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 a anaerobic environment. Severe algae growth can reduce oxygen content in the water possibly below levels necessary 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 appropria disposal method for the ingredients listed in Section 3. Any disposal practice must be in compliance with local, state, ar federal laws and regulations. Contact the appropriate agency for specific information. Disposal of hazardous waste mu be through by a licensed treatment, storage or disposal facility (TSDF).					
13.2	Special Considerations:	Contact the federal, state or provincial environmental authority to determine suitability for re disposal requirements	cycling and or prop				
		14. TRANSPORTATION INFORMATION					
		mber, proper shipping name, hazard class & division, packing group) is shown for each mode of tra	nsportation. Addition				
des	criptive information may b	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	nsportation. Addition				
des		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. CONSUMER COMMODITY, ORM-D – until 12/31/2020; or	nsportation. Addition				
des	criptive information may b	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. CONSUMER COMMODITY, ORM-D – until 12/31/2020; or UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL	nsportation. Addition				
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	riptive information may b         49 CFR (GND):         IATA (AIR)*:         IMDG (OCN):         TDGR (Canadian GND):	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.CONSUMER COMMODITY, ORM-D – until 12/31/2020; orUN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)ID8000, CONSUMER COMMODITY, 9 (IP VOL $\leq 0.5$ L); or UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 2.5$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)	\$ ≜∢∳ ∰∢∳				
dess 4.1 4.2 4.3 4.4 4.5	ADR/RID (EU):	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.CONSUMER COMMODITY, ORM-D – until 12/31/2020; orUN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)ID8000, CONSUMER COMMODITY, 9 (IP VOL $\leq 0.5$ L); or UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 2.5$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (LTD QTY, IP VOL $\leq 5.0$ L)UN1993, FLAMMABLE LIQUID, N.O.S., (PETROLEUM NAPHTHA), 3, III (CANT LTDA, $\leq 5.0$ L)	\$ ≜∢∳ ∰∢∳				



Page 5 of 6 BC-041

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

SDS Revision: 1.0

		15. REGULATORY INFORMATION			
15.1	SARA Reporting	This product contains Propylene Glycol Monomethyl Ether, a substance subject to SARA Title III, Section 313 reporting			
	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 Quantity:	NA			
15.5	Other Federal Requirements:	<u>Clean Water Act (CWA) 311</u> : Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at +1 (800) 424-8802.			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (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 D2B (Other Toxic Effects).			
15.7	State Regulatory Information:	Propylene Glycol Monomethyl Ether is found on the following state criteria lists: 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: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN) & Pennsylvania Right-to-Know List (PA). No other ingredients are found on the following state criteria lists: California Proposition 65 (CA65), Delaware Air Qualit Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New Yor Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA Wisconsin Hazardous Substances List (WI).			
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or othe reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .			
		16. OTHER INFORMATION			
16.1	Other Information:	DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE CANCER. FLAMMABLE			
		LIQUID AND VAPOR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly with soap and water 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 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. IF exposed or concerned: Get medical advice/ attention. In case of fire: Use Water, Foam, CO <sub>2</sub> , Dry Chemical to extinguish. Store in a well-ventilated place. Keep cool. <b>KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.</b>			
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			



Page 6 of 6 BC-041

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

SDS Revision: 1.0

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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
LINE CO 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:

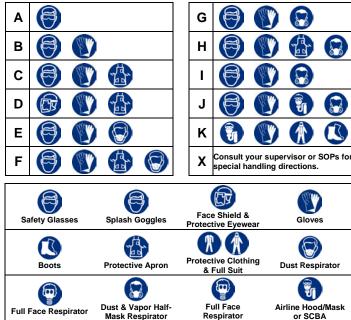
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

## 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

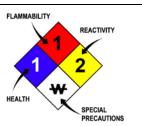
## commonly used include the following:

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	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 <sub>50</sub>	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 <sub>Io</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC <sub>0</sub> , LC <sub>10</sub> , & LC <sub>0</sub>	
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