


1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	BIRCHWOOD CASEY® SUPER BRIGHT™ TOUCH-UP SIGHT PENS	
1.2	Chemical Name:	NA	BC15116
1.3	Synonyms:	NA	NZ DISTRIBUTOR
1.4	Trade Names:	Birchwood Casey® Super Bright™ Touch-Up Sight Pens	Steve's Wholesale Ltd. Units 5 – 7 / 408 The Esplanade Island Bay Wellington 6023
1.5	Product Use:	NA	team@steveswholesale.nz
1.6	Distributor's Name:	Birchwood Casey.	Emergency Contact: Steve Collings
1.7	Distributor's Address:	7887 Fuller Road, Suite #100, Eden Prairie, MN 55344 USA	0800 303 303 0274 905 708
1.8	Emergency Phone:	ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152	
1.9	Business Phone / Fax:	+1 (952) 388-6701 / +1 (952) 388-6702	

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>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).</p> <p>DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. MAYBE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SERIOUS EYE IRRITATION. MAY BE HARMFUL IN CONTACT WITH SKIN OR IF INHALED. MAY CAUSE CANCER.</p> <p><u>Hazard Statements (H):</u> H304 – May be fatal if swallowed and enters airways. H225 – Highly flammable liquid and vapor. H312+H332 – May be harmful in contact with skin or if inhaled. H319 – Causes serious eye irritation. H350 – May cause cancer.</p> <p><u>Precautionary Statements (P):</u> 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 sources of ignition. No smoking. P233 – Keep container tightly closed. P243 – Take action to prevent static discharge. P261 – Avoid breathing fume/vapor. P264 – Wash hands and exposed skin areas thoroughly with soap and warm water after handling. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear protective gloves/ protective clothing/ eye protection. P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 – Do not induce vomiting. 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. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P362+P364 – Take off contaminated clothing and was it before reuse. P312 – Call a POISON CENTER/doctor if you fell unwell. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P321 – Specific treatment, see this container label and section 4 First Aid. P308+P313 – IF exposed or concerned: Get medical advice/attention. P370+P378 – In case of fire: use CO₂, Halon (if permitted), Dry Chemical, Foam, as authorized. P403+P235 – Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
2.2	Effects of Exposure:	<p><u>Ingestion:</u> If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p><u>Eyes:</u> Moderately irritating to the eyes. The vapor is discomforting to the eye. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p><u>Skin:</u> May be irritating to skin, especially after prolonged contact. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.</p> <p><u>Inhalation:</u> Vapors of this product may be moderately irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of concentrated vapors can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea). Odor may give some warning of exposure, but odor fatigue may occur. The dried film of this product may become dust nuisance when removed by sanding or grinding.</p>	
2.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Prolonged or repeated contact may result in defatting and drying of the skin which may result in dermatitis. Overexposure in eyes may cause redness, itching and watering. Symptoms of inhalation may be evidenced by headache, dizziness, nausea and symptoms of intoxication. In extreme cases, unconsciousness and death.	
2.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.	
2.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition. Inhalation of high concentration of this material can cause central nervous system depression and may be associated with cardiac arrhythmias.	
2.6	Target Organs:	Eyes, skin, lungs.	

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used
 NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 6/4/2014

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	TLV	STEL	IDLH		
HYDROTREATED LIGHT DISTILLATE (MINERAL SPIRITS)	64742-88-7	WJ8930000	265-191-7	10-30	100	NF	NF	NF	NF	NF	100	NA	NA	
VM & P SOLVENT	8032-32-4	OI6180000	232-453-7	10-30	300	400	NF	NF	NF	NF	500	NA	3400	
XYLENE	1330-20-7	ZE2100000	215-535-7	5-10	100	150	80	350	655	100	150	900		
	ETHYL BENZENE	100-41-4	DA0700000	202-849-4	1-5	100	150	100	434	543	100	150	800	
STODDARD SOLVENT	8052-41-3	WJ8925000	232-489-3	1-5	100	NA	790	NF	NF	NF	200	NA	20000	RESP FRAC
	BIRCHWOOD CASEY® COLOR NEON GREEN/ FLAT WHITE/ FLUORESCENT RED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: DO NOT INDUCE VOMITING. Contact the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Skin: If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with plenty of soap and water. Remove all contaminated clothing, including footwear and wash thoroughly before reuse. If irritation, redness or swelling persists, consult a physician immediately.</p> <p>Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.</p>															
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin) or impaired kidney function may be more susceptible to the effects of this substance.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #FFA500; color: white;">PHYSICAL HAZARDS</td> <td style="text-align: center;">0</td> </tr> <tr> <td colspan="2" style="background-color: #000000; color: white;">PROTECTIVE EQUIPMENT</td> </tr> <tr> <td style="background-color: #000000; color: white;">EYES</td> <td style="text-align: center;">H</td> </tr> <tr> <td style="background-color: #000000; color: white;">SKIN</td> <td></td> </tr> <tr> <td style="background-color: #000000; color: white;">LUNGS</td> <td></td> </tr> </table>	HEALTH	3	FLAMMABILITY	3	PHYSICAL HAZARDS	0	PROTECTIVE EQUIPMENT		EYES	H	SKIN		LUNGS	
HEALTH	3																
FLAMMABILITY	3																
PHYSICAL HAZARDS	0																
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SKIN																	
LUNGS																	

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.	
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized.	
5.3	Firefighting Procedures:	This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and 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. HazChem Code: 3(Y)E Hazard Identification Number: S5	



6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) 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> (e.g., ≥ 1 gallon (3.8 L)), 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.
7.2	Storage & Handling:	Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (see Section 10).
7.3	Special Precautions:	Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls:	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.	
8.2	Respiratory Protection:	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 Australia.	
8.3	Eye Protection:	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.	
8.4	Hand Protection:	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.	
8.5	Body Protection:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Color varies, liquid in 10 mL metal pen
9.2	Odor:	Strong solvent
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	22.7 °C (73 °F), setaflash
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	1.0192
9.11	Relative Density:	NA
9.12	Solubility:	NA
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	% volatile by volume 65.38 +/- 2%

10. STABILITY & REACTIVITY

10.1	Stability:	Relatively stable under ambient conditions when stored properly.
10.2	Hazardous Decomposition Products:	If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon & nitrogen).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.
10.5	Incompatible Substances:	Strong oxidizers, peroxides or strong acids. Heat, sparks, and flames.

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards	SDS Revision: 1.1	SDS Revision Date: 6/4/2014
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11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: <u>Xylene</u> : LD ₅₀ (oral, rat) 4300 mg/kg.		
11.3	Acute Toxicity:	See Section 2.4		
11.4	Chronic Toxicity:	See Section 2.5		
11.5	Suspected Carcinogen:	This product contains <u>Xylene</u> a Group 3 carcinogen by IARC. This product contains <u>Xylene</u> , not classified as a human carcinogen, ACGIH A4. This product contains <u>Ethylbenzene</u> a Group 2B carcinogen by IARC. <u>VM & P Solvent</u> is listed Group A3 by ACGIH.		
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans. There is ample evidence that <u>Xylene</u> produces embryotoxicity and fetotoxicity in mice and rats, but xylene is not considered teratogenic.		
	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 2.3		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There are no specific data available for this product.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic 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)

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.



14.1	49 CFR (GND):	CONSUMER COMMODITY, ORM-D – until 01/01/2021 UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 5.0 L)	
14.2	IATA (AIR):	ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.3	IMDG (OCN):	UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.4	TDGR (Canadian GND):	“LIMITED QUANTITY” or “QUANTITÉ LIMITÉE” or “LTD QTY” or “QUANT LTÉE” (≤ 1.0 L) UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.5	ADR/RID (EU):	UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 1.0 L)	
14.6	SCT (MEXICO):	UN1263, PRODUCTO PARA PINTURA, 3, II, CANTIDAD LIMITADA	
14.7	ADGR (AUS):	UN1263, PAINT RELATED MATERIALS, 3, II, LTD QTY (IP VOL ≤ 1.0 L)	

* This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package)

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards	SDS Revision: 1.1	SDS Revision Date: 6/4/2014
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15. REGULATORY INFORMATION

HSR002669

15.1	SARA Reporting Requirements:	This product contains <u>xylene</u> and <u>ethylbenzene</u> substances subject to SARA Title III, Section 313 reporting requirements.	
15.2	SARA Threshold Planning Quantity:	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 (RQ):	Xylene: 45.4 kg (100 lbs.); Ethylbenzene: 454 kg (1,000 lbs.)	
15.5	Other Federal Requirements:	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 B3 (combustible liquids). WHMIS Class D2B (material causing other toxic effects).	
15.7	State Regulatory Information:	<p><u>Xylene</u> is found on the following state criteria list: 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) and Wisconsin Hazardous Substances List (WI).</p> <p><u>Ethylbenzene</u> is found on the following state criteria list: CA, FL, MA, MN, PA and WA.</p> <p><u>VM & P Solvent</u> is found on the following state criteria list: PA and WA.</p> <p><u>Stoddard Solvent</u> is found on the following state criteria list: FL, MA, MN, PA and WA.</p> <p>WARNING! This product contains a chemical known to the state of California to cause cancer: <u>Ethylbenzene</u>.</p> <p>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).</p>	
15.8	Other Requirements:	<p>The primary components of this product are listed in Annex I of EU Directive 67/548/EEC:</p> <p><u>Hydrotreated light distillate</u>: Harmful (XN), Flammable (F).</p> <p><u>Risk Phrases (R)</u>: 10-51/53-65-66 – Flammable. Harmful to aquatic organisms, may cause long-term adverse effects to aquatic life. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. <u>Safety Phrases (S)</u>: 16-23-24-36-60-62 – Keep away from sources of ignition – No smoking. Do not breathe fumes/ vapors/dust. Avoid contact with skin. Wear suitable protective clothing. This material and its container must be disposed as a hazardous waste. If swallowed; do not induce vomiting: seek medical advice immediately and show this container or label where possible.</p> <p><u>VM & P Solvent</u>: Toxic (T), Harmful (Xn).</p> <p><u>Risk Phrases (R)</u>: 45-46-65 – May cause cancer. May cause inheritable genetic damage. Harmful: may cause lung damage if swallowed. <u>Safety Phrases(S)</u>: 53-45 – Avoid exposure – obtain special instructions before use. In case of accident or if you fell unwell seek medical advice immediately (show the label where possible).</p> <p><u>Xylene</u>: Harmful (XN).</p> <p><u>Risk Phrases (R)</u>: 10-20/21-38 – Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. <u>Safety Phrases (S)</u>: 2-25 – Keep out of reach of children. Avoid contact with eyes.</p> <p><u>Ethyl benzene</u>: Flammable (F), Harmful (Xn).</p> <p><u>Risk Phrases (R)</u>: 11-20 – Highly flammable. Harmful by inhalation. <u>Safety Phrases (S)</u>: 2-16-24/25-29 – Keep out of reach of children. Keep away from sources of ignition. Avoid contact with skin and eyes. Do not empty into drains.</p> <p><u>Stoddard solvent</u>: Toxic (T), Harmful (Xn).</p> <p><u>Risk Phrases (R)</u>: 45-46-65 – May cause cancer. May cause inheritable genetic damage. Harmful: may cause harm to breast-fed babies. <u>Safety Phrases(S)</u>: 2-23-24-62 – Keep out of reach of children. Do not breathe fumes/vapors/ dust. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.</p>	

16. OTHER INFORMATION

SW Revised 01.12.2020

16.1	Other Information:	<p>DANGER! Highly flammable liquid and vapor. Maybe fatal if swallowed and enters airways. Causes serious eye irritation. May be harmful in contact with skin or if inhaled. May cause cancer. Wash hands and exposed skin areas thoroughly with soap and warm water after handling. Do not eat drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. IF ON SKIN: Wash with plenty of soap and water. For specific first aid treatment (see section 4 of this Safety Data Sheet). Rinse mouth. Store Locked up. Use only in well-ventilated area. Extinguish pilot light, cigarettes and other possible sources of ignition prior to use and until vapors are gone. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	<p>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's 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.</p>	
16.4	Prepared for:	<p>Birchwood Casey 7887 Fuller Road, Suite #100 Eden Prairie, MN 55344 USA Tel: +1 (952) 388-6701 Fax: +1 (952) 388/6702 http://www.birchwoodCasey.com</p>	
16.5	Prepared by:	<p>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</p>	

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
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EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

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.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Synthetic Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

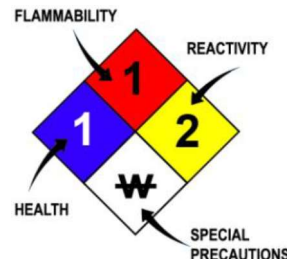
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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

HAZARD RATINGS:

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
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀₁ or TC, TC₀₁, LC₁₀, & LC₀₁	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	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:

Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

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