

Page 1 of 5 **BC-046**

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

SDS Revision: 1.0

	1	1	PRODUCT		-ANY		N LIF		110	N				
1.1	Product Name:	RUSTY V	VALNUT ST	AIN							7 / 408	The Esp	planade	e
1.2	Chemical Name:	NA						/Vellingt eswhole						
1.3	Synonyms:	24323					<u> </u>	Contac			as			
1.4	Trade Names:	Rusty Walnut	Stain			0800	303 30	03						
1.5	Product Use:	Wood Stain				0274	905 70	08						
1.6	Distributor's Name:	Birchwood Ca	asey, LLC			Poise	on Con	trol 080	0 POIS	50N (08	800 764	766)		
1.7	Distributor's Address:		Drive, New Hope											
1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-				291-7	152									
1.9	Business Phone / Fax:	+1 (952) 388-	6717											
			2 HA	ZARDS I		IFIC	ΔΤΙΟ)N						
2.1	Hazard Identification:	This product	is classified as						as F				, פחר	according to t
		classification WARNING! (criteria of NOHSC CAUSES EYE IF	C: 1088 (2004) RRITATION. N	and AD0 IAY CA	G Code	(Austi	ralia).						-
2.2	Label Elements:		ments (H): H320				Mo		0.00.0	lloraio	okin r	ocation		
		H333 – May be harmful if inhaled. <u>Precautionary Statements</u> (P): P261 – Avoid breathing dust/fume/mist/vapor. P264 – Wash thoroughly after handling. P272 – Contaminated clothing should not be allowed out of the workplace. P280 – Wear protective gloves. P302+P352 – IF ON SKIN: Wash with plenty of water. P333+P313 – If skin irritation or rash occurs: Get medical advice. Attention. P321 – Specific treatment see section 4 of this SDS. P304+P312 – IF INHALED: 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 persist: Get medical advice/attention. P501 - Dispose of contents/ container to an approved waste												
2.3	Other Warnings:	disposal plant												
2.0	outor trainingo.	KEEP OUT O												
		3 0	OMPOSITI			FNT	INF		ΙΔΤ	ION				
		0.0									IMITS IN	I AIR (mg	n/m ³)	
						ACC	SIH		NOHSC			OSHA	, ,	
						рр	m		ppm			ppm		-
HFM	IICAL NAME(S)	CAS No.	RTECS No.	FINECS No.	%	рр		ES- TWA	ES-	ES- PFAK	PFI			OTHER
		CAS No.	RTECS No.	EINECS No.	% 70-100		m STEL NA	ES- TWA NF		ES- PEAK NF	PEL NA	ppm STEL NA	idlh NA	OTHER
	IICAL NAME(S) PRIETARY INGREDIENTS	NA		NA	70-100	pp TLV	STEL	TWA	ES- STEL	PEAK		STEL		OTHER
ROF	PRIETARY INGREDIENTS	NA	NA	NA	70-100	pp TLV	STEL	TWA	ES- STEL	PEAK		STEL		OTHER
ROF	•••	NA Eye Irrit. 2B; \$	NA Skin Irrit. 1B; Acute	NA Tox. 5; H320, H3	70-100 317, H333	pp TLV NA	STEL NA	TWA NF	ES- STEL NF	PEAK NF	NA	STEL NA	NA	OTHER
ROF	PRIETARY INGREDIENTS	NA Eye Irrit. 2B; \$	NA Skin Irrit. 1B; Acute ⁻ NA	NA Tox. 5; H320, H3 226-502-1	70-100 317, H333 0-0.1	pp TLV NA	STEL NA NA	TWA NF	ES- STEL NF	PEAK NF	NA	STEL NA	NA	OTHER
ROF	RED 73	NA Eye Irrit. 2B; 5413-75-2	NA Skin Irrit. 1B; Acute NA 4. 1	NA Tox. 5; H320, H3 226-502-1 FIRST AII	70-100 317, H333 0-0.1 D MEA	NA NA	STEL NA NA	TWA NF	ES- STEL NF	PEAK NF NF	NA	STEL NA NA	NA	
ROF	PRIETARY INGREDIENTS	NA Eye Irrit. 2B; \$	NA Skin Irrit. 1B; Acute ⁻ NA	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING Der for assistat keep victim's I in the eyes, fli .) open to ensu	70-100 317, H333 0-0.1 D ME 3. Containce and inead lower ush eyes are comp	NA NA NA NA NA NA NA NA NA NA NA NA NA N	STEL NA NA NA Son C ions. orward ghly w shing.	TWA NF NF ontrol Seek i) to rec vith co If the	ES- STEL NF NF Cente mmed luce th pious	NF NF NF NF International NF	NA NA 866) 2 redical of asp sts of v	STEL NA NA 291-715 attenti iration. water fo	NA NA 52 or ion. If	local emergen vomiting occu
ROF	RED 73	NA Eye Irrit. 2B; 5 5413-75-2	NA Skin Irrit. 1B; Acute NA 4. DO NOT INDU telephone numt spontaneously, If product gets holding eyelid(s	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING Der for assista keep victim's l in the eyes, flu) open to ensu hysician or em ninated clothir	70-100 317, H333 0-0.1 D ME A G . Contrinace and nece and nece and nece and nece source ush eyes ure comp nergency g and w	PP TLV NA NA NA ASUF act Pois instruct ered (fo thorou lete flus room ir ash aff	NA NA NA NA RES son C ions. orward ghly w shing. mmedi ected	TWA NF NF ontrol Seek i) to rec vith co If the ately. areas	ES- STEL NF NF Cente mmed luce th pious eyes c	NF NF NF NF NF NF NF NF NF NF NF NF NF N	NA NA 866) 2 edical of asp its of v becom	STEL NA NA 291-715 attenti irration. water for ne swo er. If	NA NA 52 or ion. If or at lu illen du	local emergen ^f vomiting occu east 15 minute uring or followin on persists, se
ROF CID	RED 73	NA Eye Irrit. 2B; \$ 5413-75-2 Ingestion: Eyes:	NA Skin Irrit. 1B; Acute NA 4. DO NOT INDU telephone numt spontaneously, If product gets holding eyelid(s use, consult a p Remove contan prompt medical Remove victim	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING ber for assistar keep victim's I in the eyes, fli) open to ensu hysician or err ninated clothir attention. Do to fresh air a	70-100 317, H333 0-0.1 D ME A G Contance and nee ad lowe ush eyes ush eyes ush eyes ush eyes ush eyes ush eyes ush eyes to nce.	NA NA NA NA NA NA NA NA NA NA NA NA NA N	STEL NA NA NA RES son C ions. orward ghly v shing. mmedi ected ninate thing	TWA NF NF ontrol Seek i) to rec vith co If the ately. areas d cloth is diffic	ES- STEL NF NF Cente mmed luce th pious eyes c with s ing un cult, ac	PEAK NF NF r +1 (liate m he risk amour or face oap at til afted dminis	NA NA 866) 2 iedical of asp its of v becom to wat r it has ter su	STEL NA NA 291-715 attenti iration. water fo ne swo er. If i been	NA NA 52 or fon. If or at le illen du irritatio	local emergen ¹ vomiting occu east 15 minute uring or followin on persists, se ly cleaned.
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ROF CID	RED 73	NA Eye Irrit. 2B; s 5413-75-2 Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Skin:	NA Skin Irrit. 1B; Acute NA 4. DO NOT INDU telephone numt spontaneously, If product gets holding eyelid(s use, consult a p Remove contam prompt medical Remove victim immediate medi Irritation to the cause lung dam Irritation upon d May be irritating some sensitive	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING ber for assistan keep victim's l in the eyes, fli open to ensu hysician or err ninated clothir attention. Do to fresh air a ical attention. gastrointestina age. irect contact. S g to skin. The individuals.	70-100 317, H333 0-0.1 D ME G C Contance and nee and lower ush eyes ush eyes ush eyes ush eyes ush eyes ush eyes ush eyes and w. not wear t once. If breathil al tract. T Symptom product	PP TLV NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA RES son C ions. orward ghly w shing. mmedi ected ninated ninated thing in terial of ns, per terial of use al	TWA NF NF NF NF NF NF NF NF NF NF NF NF NF	Es- STEL NF NF Cente mmed luce th pious a eyes o with so ing un cult, ac rtificial ter the ng, tea skin re	PEAK NF NF NF international nor face or face or face or face or face or face armon face or face or face or face or face dminis	NA NA 866) 2 ledical of asp ts of v becom nd wat r it has ter su ation. s durin rednes s (e.g.	STEL NA NA 291-715 attenti iration. water for ne swo er. If been ppleme g swall s and s , rashe	NA NA 52 or fon. If or at le illen du irritatic proper ental o lowing swellin	local emergen vomiting occu east 15 minute uring or following on persists, se ily cleaned. xygen and se or vomiting and g.
4.1	PRIETARY INGREDIENTS RED 73 First Aid: Effects of Exposure:	NA Eye Irrit. 2B; 5 5413-75-2 Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Skin: Ingestion: Ingestion: Ingestion:	NA Skin Irrit. 1B; Acute NA 4. DO NOT INDU telephone numt spontaneously, If product gets holding eyelid(s use, consult a p Remove contan prompt medical Remove victim immediate medi Irritation to the cause lung dam Irritation upon d May be irritating some sensitive Inhalation may of	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING ber for assistan keep victim's l in the eyes, fli open to ensu hysician or err ninated clothir attention. Do to fresh air a ical attention. gastrointestina age. irect contact. S g to skin. The individuals. cause irritation	70-100 317, H333 0-0.1 D ME A G Contance and in- nee and in- nee and in- such eyes in er comp lergency ig and w. not wear t once. If breathing if tract. T Symptom product to the re-	PP TLV NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA RES son C ions. orward ghly w shing. mmedi ected ninated thing i s, per terial c use al use al ry trac	TWA NF NF NF NF NF NF NF Seek i) to rec vith co If the ately. areas d cloth d cloth d cloth d cloth d cloth areas d cloth areas d cloth areas d cloth areas d cloth can en e stingi lergic s t (nose	Es- STEL NF NF Cente mmed luce th pious a eyes o with so ing un cult, ac rtificial ter the ng, tea skin re	PEAK NF NF NF international nor face or face or face or face or face or face armon face or face or face or face or face dminis	NA NA 866) 2 ledical of asp ts of v becom nd wat r it has ter su ation. s durin rednes s (e.g.	STEL NA NA 291-715 attenti iration. water for ne swo er. If been ppleme g swall s and s , rashe	NA NA 52 or fon. If or at le illen du irritatic proper ental o lowing swellin	local emergen vomiting occu east 15 minute uring or following on persists, se ily cleaned. xygen and se or vomiting and g.
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4.1	PRIETARY INGREDIENTS RED 73 First Aid: Effects of Exposure:	NA Eye Irrit. 2B; 5 5413-75-2 Ingestion: Eyes: Skin: Inhalation: Ingestion: Eyes: Skin: Inhalation: Skin: Ingestion: Ingestion: Ingestion:	NA Skin Irrit. 1B; Acute NA 4. DO NOT INDU telephone numt spontaneously, If product gets holding eyelid(s use, consult a p Remove contan prompt medical Remove victim immediate medi Irritation to the cause lung dam Irritation upon d May be irritating some sensitive Inhalation may of	NA Tox. 5; H320, H3 226-502-1 FIRST AII CE VOMITING ber for assistan keep victim's l in the eyes, flu) open to ensu hysician or err ninated clothir attention. Do to fresh air a ical attention. gastrointestina age. lirect contact. S g to skin. The individuals. cause irritation hal discomfort, n eyes may ca g to skin. The	70-100 317, H333 0-0.1 D ME A C C C C C C C C	PP TLV NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA RES son C ions. orward ghly w shing. mmedi ected ninated thing in ninated thing a	TWA NF NF NF NF NF NF NF NF NF NF Seek i) to rec vith co lf the ately. areas d cloth is diffic form an can en e stingi lergic s t (nose ea. nd wat	Es- STEL NF NF Cente mmed luce th pious a eyes of with sa ing un cult, ac trificial ter the ng, tea skin re a, throa	PEAK NF NF NF international nor face or face o	NA NA 866) 2 ledical of asp ts of v becom nd wat r it has ter su ation. s durin rednes s (e.g. lungs)	STEL NA NA 291-715 attenti iration. water frone swo er. If i been i popleme g swall s and s , rashe	NA NA 52 or fon. If or at le len du irritatic proper ental o lowing swellin es, we	local emergen vomiting occu east 15 minute uring or followi on persists, se iy cleaned. xygen and se or vomiting a ig. Its, dermatitis)



Page 2 of 5 **BC-046**

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SDS Revision: 1.0

		4. FIRST	AID M	EASU	RES –	cont'	d				
4.4	Acute Health Effects:	Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas.									
4.5	Chronic Health Effects:	None reported by the manufacturer.									
4.6	Target Organs:	Eyes, Skin, Lungs, Liver, Kidney,									
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing skin, eye, respiratory or kidney disease.	, CNS, bo	one-marro	ow disorde	rs, liver	HEALT	H			1
							FLAMM	IABILIT	Y		0
							PHYSIC	CAL HAZ	ZARDS		0
							PROTE	CTIVE E		IENT	B
							EYES	SKIN			
		5. FIRE	FIGHT			DEC					
5.1	Fire & Explosion Hazards:	This product is not flammable.	1011		ILAJU	NL5					
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Ch	emical Fo	nam as a	uthorized					_	
5.3	Firefighting Procedures:	As in any fire, wear MSHA/NI	OSH app	proved s	elf-contain	ed brea	thing app	aratus (p	pressure-	-	
		demand) and full protective gear.									
		spray to cool fire-exposed surface fire control or dilution from enterin									
		Firefighters must use full bunker									
		breathing apparatus to protect ag									\sim
		and oxygen deficiencies.									
		6. ACCIDEN	TAL R	ELEA	SE ME	ASU	RES				
6.1	Spills:	Before cleaning any spill or lea	ak, individ	duals inv	olved in s	spill clea	nup must	wear ap	propriate	e Perso	onal Protective
		Equipment (PPE). For <u>small spills</u> (e.g., < 1 gallo	n (3.70 l)) wear	appropriat	o norsor	nal protec	tivo oqui	oment (c		uales aloves)
		Maximize ventilation (open doo	rs and w	indows).	Remove	spilled	material v	with abso	orbent m	aterial a	and place into
		appropriate closed container(s) for	or disposa	al. Dispo	se of prope	erly in ac	cordance	with loca	l, state a	nd fede	ral regulations.
		Wash all affected areas and ou clothing and wash thoroughly bef			with plent	ty of wa	rm water	and soap	o. Remo	ove any	contaminated
		For <u>large spills</u> (e.g., \geq 1 gallon			ntrv to all	unprotec	ted individ	duals. D	ike and	contain	spill with inert
		material (e.g., sand or earth). Tr	ansfer liq	uid to cor	ntainers for	r recover	y or dispo	sal and s	olid dikin	ig matei	rial to separate
		containers for proper disposal. water. Keep spills and cleaning r								areas	with soap and
					ipai sewei			o water	•		
		7. HANDLING	& STO	ORAG	E INFC	ORMA	TION				
7.1	Work & Hygiene Practices:	Eating, drinking and smoking sl									
		Workers should wash hands and								contact	with eyes, skin
7.2	Storage & Handling:	and avoid breathing vapor or mist Store in accordance with local re								iaht in a	a dry cool and
1.2	otorago a nanaling.	well-ventilated area, away from in									
		and sealed until ready for use. Co	ontainers	that have							
	0	leakage. Do not store in unlabeled									
7.3	Special Precautions:	Empty containers may contain pro	oduct resi	due.							
		8. EXPOSURE CONT		\$ & PF	RSON						
8.1	Exposure Limits:		1	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		NA	NA	NA	NF	NF	NF	NA	NA	NA	
8.2	Ventilation & Engineering	General mechanical (e.g., fans)	or natura	l ventilat	ion is suff	icient wh	nen this p	roduct is	in use.	Use Ic	cal or general
	Controls:	exhaust ventilation to effectively									
8.3	Respiratory Protection:	product. Ensure appropriate deco				,					station).
0.5	Respiratory Frotection.	No special respiratory protection necessary, use only respiratory									
		§1910.134, or applicable U.S. sta									
		E.C. member states, or Australia									
8.4	Eye Protection:	Avoid eye contact. Depending of									
		necessary, refer to U.S. OSHA EN166.	29 CFR	§1910.13	3, Canadi	an stand	lards, or t	he Europ	bean Sta	ndard	6
8.5	Hand Protection:	If anticipated that prolonged & re	neated sl	kin contac	t will occu	ır durina	use of this	s product	wear lat	tex or	
1		rubber gloves for routine indust									(Y)
L		appropriate standards of Canada						0			
8.6	Body Protection:	However, no special body prote								ng. If	
		necessary, refer to appropriate st	andards o	or Canada	a, the E.C.	member	states, or	0.S. OS	HA.		



Page 3 of 5 **BC-046**

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SDS Revision: 1.0

		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Brown liquid
9.2	Odor:	Slight
9.3	Odor Threshold:	NA
9.4	pH:	8.6
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	100 °C (212 °F)
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	>1
9.11	Relative Density:	1.01
9.12	Solubility:	Miscible
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:	NA
		10. STABILITY & REACTIVITY
10.1	Stability:	This product is stable under normal storage and use conditions.
10.2	Hazardous Decomposition	
10.3	Products: Hazardous Polymerization:	Oxides of carbon (CO, CO ₂) and other unidentified organic compounds.
10.3	Conditions to Avoid:	Will not occur.
10.4	Incompatible Substances:	Open flames, high heat and direct sunlight.
10.5	incompatible Substances.	Strong oxidizing agents (chlorates, nitrates, peroxides etc.), acids or alkalis.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
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, but has not been presented in this document
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm
11.6	Reproductive Toxicity:	For more information go to <u>www.P65Warnings.ca.gov</u>
11.0		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: Reproductive Toxicity:	This product is not reported to cause teratogenic effects in humans.
11.7	Irritancy of Product:	This product is not reported to cause reproductive effects in humans.
	Biological Exposure Indices:	See Section 4.2
11.8 11.9	Physician Recommendations:	
11.9	Filysician Neconimendations.	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 fata to overexposed aquatic life.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	13. DISPOSAL CONSIDERATIONS Waste disposal must be in accordance with appropriate Federal, state, and local regulations.



Page 4 of 5 **BC-046**

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SDS Revision: 1.0

		14. TRANSPORTATIO	N INFORMATION
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 HSR002670
15.1	SARA Reporting Requirements:		ject to SARA Title III, Section 313 reporting requirements.
15.2	SARA TPQ:	This product is not subject to the reporting require	ements of SARA Title III. Section 302.
15.3	TSCA Inventory Status:	All components of this product are listed in the TS	
15.4	CERCLA Reportable Quantity:	NA	
15.5	Other Federal Requirements:	Clean Water Act (CWA) 311: Discharges or spi	Ils which produce a visible sheen on waters of the United States, their surface waters must be reported to the EPA's National Response Center
15.6	Other Canadian Regulations:	Regulations (CPR) and the SDS contains all	the hazard criteria of the Controlled Products of the information required by the CPR. The L/NDSL. None of the components of this product IIS D2B (Other Toxic Effects).
15.7	State Regulatory Information:	Management List (DE), Florida Toxic Substance Critical Substances List (MI), Minnesota Hazardo	a list: PA and NJ. e criteria lists: California Proposition 65 (CA65), Delaware Air Quality es List (FL), Massachusetts Hazardous Substances List (MA), Michigan us Substances List (MN), New Jersey Right-to-Know List (NJ), New York Right-to-Know List (PA), Washington Permissible Exposures List (WA),
15.8	Other Requirements:		nown to the State of California to cause cancer, birth defects, or other
	·		
	1	16. OTHER INF	
16.1	Other Information:	INHALED. Avoid breathing dust/fume/mist/vapo allowed out of the workplace. Wear protective goccurs: Get medical advice. Attention. Specific	Y CAUSE AN ALLERGIC SKIN REACTION. MAY BE HARMFUL IF r. Wash thoroughly after handling. Contaminated clothing should not be ploves. IF ON SKIN: Wash with plenty of water. If skin irritation or rash to treatment see section 4 of this SDS. IF INHALED: Call a POISON Rinse cautiously with water for several minutes. Remove contact lenses if rritation persists: Get medical advice/attention.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to 0 government regulations must be reviewed for ap LLC knowledge, the information contained hereir completeness is not guaranteed and no warrantie contained herein relates only to the specific prod properties must be considered. Data may be cha	DSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & Birchwood Casey, is reliable and accurate as of this date; however, accuracy, suitability or es of any type, either expressed or implied, are provided. The information uct(s). If this product(s) is combined with other materials, all component inged 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	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 Dangerous Goods Training & Consulting



Page 5 of 5 **BC-046**

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

SDS Revision: 1.0

SDS Revision Date: 10/25/2018

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:

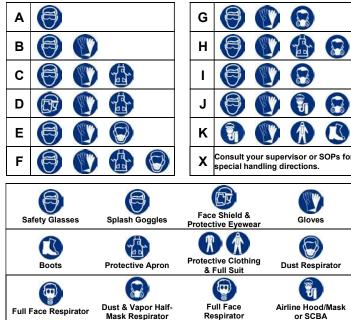
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

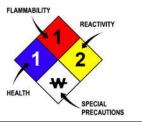
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA ELAMMADILITY LIMITS IN AID.

FLAMMADILITT 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	FLA
1	Slight Hazard	FLA
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	A 10 and
ALK	Alkaline	
COR	Corrosive	/
W	Use No Water	HEA
OX	Oxidizer	
TREFOIL	Radioactive	



TOXICOLOGICAL INFORMATION:

LD 50	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 10	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD ₁₀ , LD ₁₀ , & LD ₀ or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC ₀ , LC ₁₀ , & LC ₀	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
$\log K_{ow}$ or $\log K_{oc}$	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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

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

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