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1.1	Product Name:		PRODUC											
1.1	Product Name:	BIRCHW	OOD CAS	SEY® PEF	RMA CO	<u>OLO</u>	R	DAR	RK IF	RIDE	SCI	<u>ENT</u>		
1.2	Chemical Name:	Acid Mixture												
1.3	Synonyms:	PN 13903												
1.4	Trade Names:	Perma Color [™]	Perma Color [™] Dark Iridescent											
1.5	Product Use:	Metal Finishin	Metal Finishing											
1.6	Distributor's Name:	Birchwood Ca	Birchwood Casey											
1.7	Distributor's Address:	7887 Fuller R	7887 Fuller Road, Suite #100, Eden Prairie, MN 55344 USA											
1.8	Emergency Phone:	ChemTrec -	+1 (800) 424-	-9300 / +1 (70	3) 527-38	887 or	Pois	on C	ontro	l Cen	ter +1	1 (866)	291-7	152
1.9	Business Phone / Fax:	+1 (952) 388-	6717											
			2 11	4 7 4 D D C	IDENTI	FIC /	A TIC	<u> </u>						
2.1	Hazard Identification:	This product		AZARDS					nood	0000	rdina	to the	classifi	cation criteria of
		[NOHSC: 108 WARNING! VERY TOXIC	38 (2004)] and a HARMFUL IF TO AQUATIO	ADG Code (Au	istralia). D. CAUS ONG LAST	ES SI	KIN IF	RRITA STS.	TION.					E IRRITATION
2.2	Label Elements:			302 – Harmful						in irrits	tion	H310		
				n. H410 – Verv								11319	_	_
			,	P): P264 – Wa		•		_	_	,		a P27	0	
1				ke when using										
				ves/ protective										\
				POISON CENT										
				N: Wash with										X
		container lab	el and Section	n 4 of this SD	S. P332+F	⊃313 -	- If sk	kin irrit	tation of	occurs	Get	medica	al	
				1+P338 – IF IN										3K
				present and e										
				362+P364 – Ta										\ /
				P405 – Store le			– Dis	spose	of con	tents/	contai	ner to	а	
		licensed treat	tmant ctoraga											
2.3		licensed treatment, storage or disposal facility (TSDF). In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison contact.												
2.3	Other Warnings:	In the event of	of an exposure	or medical ind	quiry involv	ing thi	s proc	duct, p	lease (contac	t a ph	ysician	or loca	al poison contro
2.3	Other Warnings:	center, who n	of an exposure	or medical inc ce from the U.S	quiry involv 6. manufact	ring this turer, a	and sh	now the	em this	SDS.	This	produ	ct does	not contain any
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CHEMM WATE PROP SULF. SELE SULF	PRIETARY PER SULPHATE AMIC ACID NIOUS ACID URIC ACID	center, who no chemicals kno www.P65W 3. Co CAS No. 7732-18-5 NA 7758-99-8 Acute Toxicity 5329-14-6 Skin Irrit. 2; E 7783-00-8 Acute Toxicity 7664-93-9 Skin Corrosio	of an exposure may seek adviction to the Standard seek advicti	EINECS No. 231-791-2 NA 231-847-6 Eye Irrit. 2, Aquati 226-218-8 c chronic 3; H315 231-639-5 re Damage 1; Act FIRST AI OCE VOMITING or or local emeron. If vomiting in the eyes, fl s) open to ensu	Quiry involves manufact of the cause of REACI of REACI of REACI of REACI of REACI of the cause o	ring this turer, a se car H OF C ENT ACC PP TLV NE NA (1) Quatic C NA (2) (0.2) Let Aquatic C (0.2) Let Consider Contained	INF INF GIH STEL NA NA Chronic NA A atic To (3) 3; H31 RES On Corr numbously, ghly whing.	NF 1 1, H30 NF (0.2) exicity 1 1, H402 http://district.com/life	WAT EXPO NOHSC ppm ES- STEL NF NF NF OR OTHER OR OTHER O	S SDS oduction of the sure L S	This ve ha IMITS II PEL NE NA (1) H400 NA (0.2) 10 6) 29 and ii lower ts of verse	N AIR (m. OSHA ppm STEL NE NA NA icity 1); (3)	IDLH NE NA (1) NA H301, H (15) or the ons. Sovard) to or at le	OTHER DUST nearest Poison Seek immediate reduce the risk
CHEMM WATE PROP SULF SELE SULF	PRIETARY PER SULPHATE AMIC ACID NIOUS ACID URIC ACID	center, who no chemicals kno www.P65W 3. Co CAS No. 7732-18-5 NA 7758-99-8 Acute Toxicity 5329-14-6 Skin Irrit. 2; E 7783-00-8 Acute Toxicity 7664-93-9 Skin Corrosio	of an exposure may seek adviction to the Standard seek advicti	EINECS No. 231-791-2 NA 231-847-6 Eye Irrit. 2, Aquati 226-218-8 c chronic 3; H315 231-974-7 xicity-Oral 3; STC 231-639-5 re Damage 1; Act FIRST AI OCE VOMITING or local emeron. If vomiting in the eyes, fles) open to ensubhysician or emo	GREDIE % 60-100 0-10 0-10 0-10 0-10 0-10 0-10 0-10 0-10 D-10	ring this turer, a se car H OF C ENT ACC PP TLV NA (1) Quatic C NA 2 (0.2) Let (1) Foxicity ASUF ACC ACC PP TLV NA (1) Coverable of the contance of the orough the flush toom im	INF GIH STEL NA NA Chronic NA NA Chronic NA STEL NA NA Chronic NA NA NA Chronic NA NA Chronic NA NA NA Chronic NA NA NA Chronic NA NA NA NA Chronic NA NA NA NA NA NA NA NA NA N	NF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WAT EXPO NOHSC PPM ES- STEL NF NF NF OZ, H31: NF Center - r assiss victim's pious a eyes o	S SDS oducti ION SURE L ES-PEAK NF NF NF NF S Aqua NF +1 (86 tance shead amount face	This ve ha IMITS II PEL NE NA (1) H400 NA (0.2) tic Tox (1) 6) 29 and in lower ts of v become	NAIR (m. STEL NE NA	IDLH NE NA (1) NA H301, H (15) or the ons. Sward) to or at le llen dui	OTHER DUST DUST Dust nearest Poison Seek immediate reduce the risk ast 15 minutes, ring or following
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CHEMM WATE PROF COPP SULF SELE SULF	PRIETARY PER SULPHATE AMIC ACID NIOUS ACID URIC ACID	center, who no chemicals kin to www.P65W 3. CO CAS No. 7732-18-5 NA 7758-99-8 Acute Toxicity 5329-14-6 Skin Irrit. 2; E 7783-00-8 Acute Toxicity 7664-93-9 Skin Corrosio	of an exposure may seek advice	EINECS No. 231-791-2 NA EINECS No. 231-791-2 NA 231-847-6 Eye Irrit. 2, Aquati 226-218-8 c chronic 3; H315 231-974-7 xicity-Oral 3; STC 231-639-5 re Damage 1; Act FIRST AI JCE VOMITING or local emer on. If vomiting in the eyes, fles) open to ensubly sician or eminated clothing on worsens, con	GREDIE % 60-100 0-10 0-10 0-10 0-10 0-10 0-10 0-10 0-10 D-10 0-10 D-10	ring this turer, a se car H OF C ENT ACC PP TLV NE NA (1) quatic C NA 2 (0.2) ute Aqua (1) Foxicity ASUF t Poiso sphone choroug te flush bom im h affec	INF GIH STEL NE NA Chronic NA NA Chronic NA STES On Core numb ously, ghly w hing.	ES-TWA NF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WAT EXPO NOHSC PPM ES- STEL NF NF NF OZ, H31: NF Chroni (3) 2 Center - r assiss victim's eyes o eyes o eth soa	ES-PEAK NF NF NF NF SURE L ES-PEAK NF NF NF AGA Aqua Agamoun T face	This ve ha IMITS II PEL NE NA (1) H400 NA (0.2) tic Tox (1) 6) 29 and in lower ts of vectors to second water	NAIR (m. STEL NE NA NA , H410 NA NA , H410 NA Instruction (for water forme swo	IDLH NE NA (1) NA H301, H (15) or the ons. Sevard) to or at le len du comfort	OTHER DUST DUST Dust nearest Poison Seek immediate reduce the risk ast 15 minutes, ring or following
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		4. FIRST AID MEASURES - cont'd				
.2	Effects of Exposure:	Eyes: Severe or permanent eye damage.				
		Skin: Burns upon direct contact.				
		Ingestion: Severe burns of mouth, throat, stomach.				
_		Inhalation: Severe irritation or burns in respiratory tract and mucous me	mbranes. Po	ossible lung damage.		
.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes				
		Skin: Redness, burning, itching, rash, blistering of skin.				
		Ingestion: Nausea, vomiting, severe abdominal pain.		PW - do har - dobar		
.4	Acute Health Effects:	Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous read May be harmful if inhaled. Material is extremely destructive to the			o and iii	nnoi
		respiratory tract. May be harmful if swallowed. Causes burns. May be har			s and u	ppe
.5	Chronic Health Effects:	May damage the nervous system, kidney and/or liver.				
.6	Target Organs:	Eyes, Skin, Nervous System, Kidneys, Liver, Respiratory System				
.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target				2
		organs (eyes, skin, and respiratory system) or impaired kidney function may be more susceptible to the effects of this substance.	FLAMMA	BILITY		0
		may be more susceptible to the checks of this substance.	PHYSICA	AL HAZARDS		1
				TIVE EQUIPMENT		Н
			-			•••
1.8	Notes to Physician:	This product contains Colonians Asid and is notestially fatal if is not	EYES	SKIN LUNG		!
0	Notes to Fflysician.	This product contains <u>Selenious Acid</u> and is potentially fatal if ingeste should be considered in asymptomatic or minimally symptomatic patien edema and multi-organ failure may occur. 24/7 medical toxicology consultations.	its as delaye	d toxic effects includi	ng pulmo	
		5. FIREFIGHTING MEASURES				
.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which with air. May intensity fire; oxidizer.	can form ex	plosive mixtures		
5.2	Extinguishing Methods:	Use fire-extinguishing media appropriate for surrounding materials.				
5.3	Firefighting Procedures:	As with any fire, firefighters should wear appropriate protective equipme approved or equivalent self-contained breathing apparatus (SCBA) and pass for surrounding materials. Hazardous decomposition products degradation may produce oxides of carbon, phosphorous, selenium an and/or derivatives. Fire should be fought from a safe distance. Keep of the fire is out. Use water spray to cool fire-exposed surfaces and to upwind. Prevent runoff from fire control or dilution from entering sewers, or any natural waterway.	protective clo may be rel nd/or nitroge containers co protect pers	othing. Fight fires leased. Thermal en, hydrocarbons ol until well after sonal. Fight fire	2	1
		6. ACCIDENTAL RELEASE MEASURI	ES			
6.1			_			
	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanul Equipment (PPE). Use safety glasses or safety goggles and face shield apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves an inert material such as vermiculite or sand to soak up the product and place Large Spills: Keep incompatible materials (e.g., organics such as oil) avor release. Isolate immediate hazard area and keep unauthorized persor done with minimal risk. Wear appropriate protective equipment including Recover as much free liquid as possible and collect in acid-resistant condischarging liquid directly into a sewer or surface waters.	d; use gloves and protective be into a cont way from spil nnel out of ar ng respirator	eyewear. Use a non ainer for later disposa I. Stay upwind and a rea. Stop spill or releaty protection as condi	clothing (-combust l. way from se if it ca tions war	e.g., tible, spil an be
	Spills:	Equipment (PPE). Use safety glasses or safety goggles and face shield apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves an inert material such as vermiculite or sand to soak up the product and plactured transport of the product and plactured spills: Keep incompatible materials (e.g., organics such as oil) as or release. Isolate immediate hazard area and keep unauthorized person done with minimal risk. Wear appropriate protective equipment including Recover as much free liquid as possible and collect in acid-resistant cor	d; use gloves ad protective be into a cont way from spil nnel out of ar ng respirator ntainer. Use a	eyewear. Use a non ainer for later disposa I. Stay upwind and a rea. Stop spill or releaty protection as condi	clothing (-combust l. way from se if it ca tions war	e.g., tible, spil an be rrant
7.1	Work & Hygiene Practices:	Equipment (PPE). Use safety glasses or safety goggles and face shield apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves an inert material such as vermiculite or sand to soak up the product and place Large Spills: Keep incompatible materials (e.g., organics such as oil) avor release. Isolate immediate hazard area and keep unauthorized persor done with minimal risk. Wear appropriate protective equipment including Recover as much free liquid as possible and collect in acid-resistant condischarging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMAT Avoid breathing mists or spray. Avoid eye and skin contact. Wear protect of the reach of children. Do not eat, drink or smoke when handling this pexpose to heat and flame. Use only in ventilated areas. Keep out of the	d; use gloves ad protective be into a cont way from spil nnel out of ar ng respirator ntainer. Use a	eyewear. Use a non ainer for later disposa I. Stay upwind and a rea. Stop spill or releasy protection as condiabsorbent to pick up in the when handling process the thoroughly after ha	combust combust way from se if it cations war esidue. A	e.g., spil an be rrant Avoic
7.1		Equipment (PPE). Use safety glasses or safety goggles and face shield apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves an inert material such as vermiculite or sand to soak up the product and place Large Spills: Keep incompatible materials (e.g., organics such as oil) aver release. Isolate immediate hazard area and keep unauthorized persor done with minimal risk. Wear appropriate protective equipment including Recover as much free liquid as possible and collect in acid-resistant condischarging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMAT Avoid breathing mists or spray. Avoid eye and skin contact. Wear protect of the reach of children. Do not eat, drink or smoke when handling this p	d protective ce into a cont way from spil nnel out of ar ng respirator ntainer. Use a contive equipment or oduct. Was the reach of control in the not in use the reach of the not in use the control in the not in use the reach of the not in use t	eyewear. Use a non ainer for later disposa il. Stay upwind and a rea. Stop spill or releaty protection as conditabsorbent to pick up in the when handling process the thoroughly after has hildren. Immediately in, fans) away from hea. Avoid temperatures	clothing (-combust -	e.g., i spilling an be rrant Avoid



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8.1	Exposure Limits:		AC	SIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)					ES-	ES-				
		CHEMICAL NAME(S) COPPER SULPHATE	TLV (1)	STEL	ES-TWA	STEL	PEAK	PEL (1)	STEL	IDLH (4)	DUST
		SELENIOUS ACID	(1)	NA NA	(0.2)	NF NF	NF NF	(1)	NA NA	(1) NA	D051
		SULFURIC ACID	(1)	(3)	(1)	(3)	NF	(1)	(3)	(15)	
			(.)	(0)	(.,	(0)		(.)	(0)	(.0)	
3.2	Ventilation & Engineering Controls:	Use local or general exhaust vent handling of this product. Ensure a station).									
3.3	Respiratory Protection:	use only protection authorized by 2	instances where vapors or sprays of this product are generated, and respiratory protection is needed, e only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian S Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or								
8.4	Eye Protection:	Safety glasses with side shields n shield is also recommended.	nust be u	used whe	en handling	g or using	g this pro	duct. A p	orotective	face	
8.5	Hand Protection:	Wear protective, chemical-resistan	t gloves	(e.g., ne	oprene) wh	nen using	or handli	ng this pr	oduct.		
8.6	Body Protection:	A chemical resistant apron and/o product.	r protect	ive cloth	ing are re	commend	ded when	handling	g or using	g this	
		9. PHYSICAL	& CH	EMIC	AL PR	OPER	TIES				
9.1	Appearance:	Liquid									
9.2	Odor:	Odorless									
9.3	Odor Threshold:	NA									
9.4	pH:	± 3.5									
9.5	Melting Point/Freezing Point:	< -2.2 °C (<28 °F) freezing point									
9.6	Initial Boiling Point/Boiling Range:	> 98.88 °C (> 210 °F)									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	< 1.0 (air = 1.0)									
9.11	Relative Density:	1.02 (9.12 lb/gal)									
9.12	Solubility:	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:	Percent solid 0.04 w/w									
10.1	Canbilla	10. STA	BILIT'	Y & R	EACTI	VITY					
10.1	Stability: Hazardous Decomposition	Stable at normal temperatures.	a radii-	ina cas	to occ ===	oduca -	rannonal-	nidos s=	d bydec	on colo	ido Thorre
10.2	Products:	Reaction with organics and stror decomposition may produce seleni						mues an	u nydrog	en seier	iiae. inerm
10.3	Hazardous Polymerization:	Will not occur.	, IIIIC	gon, pile	- Spriono ai	Joppei	JAIGOS.				
10.4	Conditions to Avoid:	Excessive heat, shock, friction.									
10.5	Incompatible Substances:	Cyanides, water-reactive substant materials, most metals.	ces, stro	ng redu	cing agent	s, chlorin	nated clea	aners or	sanitizers	, combu	stible orgar
		11. TOXICO	LOGI	CAL	NFOR	MATIC	ON				
11.1	Routes of Entry:	Inhalation: YES			Absorption:				Ingesti	on: YES	3
11.2	Toxicity Data:	Copper Sulfate: LD ₅₀ (oral, rat) = 3 2,140 mg/kg	300 mg/k	g. <u>Sulfa</u>			rat) 3160)mg/kg; <u>S</u>	ulfuric Ac		
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5									
11.5	Suspected Carcinogen:	Selenious Acid is listed by IARC of "strong inorganic acid mists contapplies only to mists containing sul This product does not contain an	aining su Ifuric acid	Ilfuric ac	id" as Cat to sulfuric	tegory 1, acid or s	a known sulfuric aci	human id solutior	carcinogo ns.	en. This	classification



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 10/19/2017 SDS Revision: 1.0 11. TOXICOLOGICAL INFORMATION – cont'd This product is not reported to cause reproductive toxicity in humans 11.6 Reproductive Toxicity 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. This product is not reported to cause reproductive effects in humans Reproductive Toxicity: Irritancy of Product: 11.7 See Section 4.2 Biological Exposure Indices NF 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 122 Effects on Plants & Animals There are no specific data available for this product. 12.3 Effects on Aquatic Life Very toxic to aquatic life with long lasting effects. 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. Special Considerations: 13.2 U.S. EPA Hazardous Waste - Characteristic - Corrosive (D002), Characteristic - Toxic (D010) 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. 49 CFR (GND): **NOT REGULATED** 14.2 IATA (AIR)*: **NOT REGULATED** 14.3 IMDG (OCN): NOT REGULATED TDGR (Canadian GND): 14 4 NOT REGULATED ADR/RID (EU): 14.5 NOT REGULATED SCT (MEXICO): 14.6 NOT REGULATED 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION 15.1 SARA Reporting This product contains Copper Sulfate and Selenious Acid substances subject to SARA Title III, Section 313 reporting requirements 15.2 SARA TPQ: NA 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity Copper Sulfate: 10 lbs (4.54 kg); Selenious Acid: 10 lbs (4.54 kg); Sulfuric Acid: 1,000 lbs (454 kg) 15.5 Other Federal Requirements NA Other Canadian Regulations: 15.6 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 E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects). 15.7 State Regulatory Information: Copper Sulfate is found on the following state criteria list:), Massachusetts Hazardous Substances List (MA), Pennsylvania Right-to-Know List (PA) and New Jersey Right-to-Know List (NJ). Sulfamic Acid is fond on the following state criteria lists: PA and NJ. Selenious Acid is found on the following state criteria lists: FL, MA, MN, PA and WI. Sulfuric Acid is found on the following state criteria lists: FL, MA, MN, NJ, PA and Washington Permissible Exposures List (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). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov Other Requirements: 15.8 NA



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		16. OTHER INF	ORMATION
16.1	Other Information:	VERY TOXIC TO AQUATIC LIFE WITH LONG Wash with soap and water thoroughly after hand to the environment. Wear protective gloves/ prof POISON CENTER/doctor if you feel unwell. Rins this container label and section 4 of this SDS. I cautiously with water for several minutes. Remo	Illing. Do not eat, drink, or smoke when using this product. Avoid release elective clothing/ eye protection/ face protection. IF SWALLOWED: Call a se Mouth. IF ON SKIN: Was with plenty of water. Specific treatment: see if skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse eve contact lenses, if present ad easy to do. If eye irritation persists: Get do clothing and was it before reuse. Collect spillage. Store locked up.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for Casey's knowledge, the information contained suitability or completeness is not guaranteed ar The information contained herein relates only	DSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided. to the specific product(s). If this product(s) is combined with other sidered. Data may be changed from time to time. Be sure to consult the
16.4	Prepared for:	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	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



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

SDS Revision: 1.0

SDS Revision Date: 10/19/2017

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

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

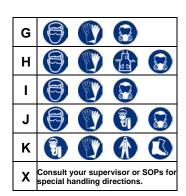
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE SECOND SECON	
D		THE STATE OF THE S	
Ε			
F		THE STATE OF THE S	





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

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	FLAMMABILITY
1	Slight Hazard	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ X W Y
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

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 _{Io}	Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC _o , LC _{io} , & LC _o				
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 Kow or log Koc	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:

0	®		②	Θ	(%)		
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			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment