## **Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910.1200 Standard must be

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)

Form Approved

Lithium metal Cas #7439-93-2 N/A-reactive alkali metal  Thionyl chloride (SOC1 <sub>2</sub> ) Cas #007719-09-7 1/0 ppm 5/0 ppm  Section III - Physical/Chemical Characteristics  Boiling Point N/A Specific Gravity (H <sub>2</sub> O=1) N/A  Vapor Pressure (mm Hg.) N/A Melting Point N/A	consulted for specific requirements.						
Section   II			OMB No	<u>. 1218-007</u>	72		
Section I  Manufacturer's Name			Note: Blank	spaces are no	t permitted. If an	ny item is not ap	plicable, or
Emergency Telephone Number   Eagle-Picher Technologies, LLC   417-776-2256 800-424-9300 (CHEMTREC)   417-776-2256 800-424-9300 (CHEMTREC)   417-776-2256 800-424-9300 (CHEMTREC)   147-776-2256   14212 Bethel Road   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-776-2256   2417-7	KEEPER II/Lithium/Thionyl Chloride	no information is available, the space must be marked to indicate that					
Eagle-Picher Technologies, LLC Address (Number, Street, City State, and Zip Code) PO. Box 130 1417-776-2256 14212 Bethel Road Seneca, MO 64865 1-Juli-98 Signature of Preparer (optional)  Section II - Hazardous ingredients/identity Information Hazardous Components (Specific Chemical Identity, Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (optional Lithium metal Cas #7439-93-2 NA-reactive alkali metal Thionyl chloride (SOC ½) Cas #007719-09-7 1/0 ppm 5/0 ppm  Section III - Physical/Chemical Characteristics Boiling Point N/A Vapor Pressure (mm Hg.) N/A Melting Point N/A Vapor Density (Air=1) N/A Solubility in Water N/A Appearance in Odor N/A Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) N/A Section IV - Fire and Explosion Hazard Data Extinguishing Media Do not use water. Use dry chemical, soda ash, sand. Special Fire Fighting Procedures Use self contained breathing apparatus and full protective equipment. Unusual Fire and Explosion Hazards Use self contained breathing apparatus and full protective equipment. Unusual Fire and Explosion Hazards	Section I						* 1 10
Address (Number, Street, City State, and Zip Code) P.O. Box 130 417-776-2256 14212 Bethel Road Seneca, MO 64865 1-Jul-98 Signature of Preparer (optional)  Section II - Hazardous Ingredients/Identity Information  Hazardous Components (Specific Chemical Identity, Common Name(s)) Section II - Hazardous Components (Specific Chemical Identity, Common Name(s)) Section III - Physical/Chemical Characteristics  Thionyl chloride (SOCt) Cas #007719-09-7  N/A prepared  Section III - Physical/Chemical Characteristics  Boiling Point  N/A  Vapor Pressure (mm Hg.)  N/A  Welting Point  N/A  Vapor Density (Air=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Setting in Method Used  N/A  Setting in Method Used  N/A  Setting in Method Used  N/A  Setting in Method Used Used (Note In Method Used)  N/A  Setting in Method Used (Note In Method Used)  N/A  Setting in Method Used (Note In Method Used)  N/A  Setting in Fighting Procedures  Use self contained breathing apparatus and full protective equipment.	Manufacturer's Name		Emergenc	y Telephone I	Number		
P.O. Box 130  14212 Bethel Road  Seneca, MO 64865  1-Jul-98  Signature of Preparer (optional)  Section II - Hazardous Ingredients/Identity Information  Hazardous Components (Specific Chemical Identity, Common Name(s))  Algorithm metal Cas #7439-93-2  Thionyl chloride (SOC1) Cas #007719-09-7  Thionyl chloride (SOC1) Cas #007719-09-7  N/A  Section III - Physical/Chemical Characteristics  Boiling Point  N/A  Vapor Pressure (mm Hg.)  N/A  Welting Point  N/A  Vapor Density (Air=1)  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Welthod Used)  N/A  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards  Use self contained breathing apparatus and full protective equipment.	Eagle-Picher Technologies, LLC	417-77	76-2256 8	00-424-930	00 (CHEM	TREC)	
14212 Bethel Road   Date Prepared	Address (Number, Street, City State, and Zip Code	Telephone	Number for I	nformation			
Seneca, MO 64865  1-Jul-98  Signature of Preparer (optional)  Section II - Hazardous Ingredients/Identity Information  Hazardous Components (Specific Chemical Identity, Common Name(s))  ShA PEL ACGIH TLV Other Limits Recommended % (optional Lithium metal Cas #7439-93-2 N/A-reactive alkali metal  Thioryl chloride (SOC-t) Cas #007719-09-7  1/0 ppm 5/0 ppm  5/0 ppm  Section III - Physical/Chemical Characteristics  Boiling Point N/A Specific Gravity (H <sub>2</sub> O=1)  N/A Wapor Pressure (mm Hg.)  N/A Melting Point N/A  Vapor Density (Air=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.	P.O. Box 130	417-77	76-2256				
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Hazardous Components (Specific Chemical Identity, Common Name(s))  OSHA PEL ACGIH TLV Other Limits Recommended % (optional Lithium metal Cas #7439-93-2 N/A-reactive alkall metal Thionyl chloride (SOC1) Cas #007719-09-7  1/0 ppm 5/0 ppm  Section III - Physical/Chemical Characteristics  Boiling Point N/A Specific Gravity (H <sub>2</sub> O=1) N/A  Vapor Pressure (mm Hg.) N/A Melting Point N/A  Vapor Density (Air=1) N/A Evaporation Rate (Butyl Acetate=1) N/A  Solubility in Water N/A  Appearance in Odor N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used) N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire and Explosion Hazards  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards			Signature	of Preparer (c	ptional)		
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Vapor Pressure (mm Hg.)  N/A  Vapor Density (Air=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Example Limits  LEL  UEL  X/A  Example Limits  LEL  UEL  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Section III - Dhysical/Chamical Chare	-4					
Vapor Density (Air=1)  N/A  Evaporation Rate (Butyl Acetate=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards		cteristics					1
Vapor Density (Air=1)  N/A  Evaporation Rate (Butyl Acetate=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards		T .	Specific G	ravity (H <sub>2</sub> O=1)			N/A
Vapor Density (Air=1)  N/A  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used) N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point	T .	·				N/A
Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point	N/A	·				
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N/A  Section IV - Fire and Explosion Hazard Data  Flash Point (Method Used) Flammable Limits LEL UEL N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)	N/A N/A	Melting Po	int			N/A
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Flash Point (Method Used) N/A  Extinguishing Media Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A	N/A N/A	Melting Po	int			N/A
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N/A  Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A	N/A N/A N/A	Melting Po	int			N/A
Extinguishing Media  Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar	N/A N/A N/A	Melting Po	int n Rate (Butyl		I FI	N/A N/A
Do not use water. Use dry chemical, soda ash, sand.  Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)	N/A N/A N/A	Melting Po	int n Rate (Butyl		LEL	N/A N/A
Special Fire Fighting Procedures  Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A	N/A N/A N/A	Melting Po	int n Rate (Butyl		LEL	N/A N/A
Use self contained breathing apparatus and full protective equipment.  Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media	N/A N/A N/A	Melting Po Evaporation	int n Rate (Butyl		LEL	N/A N/A
Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water N/A  Appearance in Odor N/A  Section IV - Fire and Explosion Hazard Flash Point (Method Used) N/A  Extinguishing Media Do not use water. Use dry chemical, s	N/A N/A N/A	Melting Po Evaporation	int n Rate (Butyl		LEL	N/A N/A
Unusual Fire and Explosion Hazards	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures	N/A N/A N/A  rd Data  soda ash, s	Melting Po Evaporation Flammable and.	int on Rate (Butyl		LEL	N/A N/A
	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures	N/A N/A N/A  rd Data  soda ash, s	Melting Po Evaporation Flammable and.	int on Rate (Butyl		LEL	N/A N/A
Do not reclininge, disable initial above 120 o (2011), inclinate of expect contents to water.	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures  Use self contained breathing apparatu	N/A N/A N/A  rd Data  soda ash, s	Melting Po Evaporation Flammable and.	int on Rate (Butyl		LEL	N/A N/A
Vent runture or explosion may result and cause severe hurns	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures  Use self contained breathing apparatu  Unusual Fire and Explosion Hazards	N/A N/A N/A  The description of the second and second and full process and full process and second	Melting Po Evaporation Flammable and.	int on Rate (Butyle e Limits quipment.	Acetate=1)		N/A N/A
	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures  Use self contained breathing apparatu  Unusual Fire and Explosion Hazards  Do not recharge, disassemble, heat alt	N/A N/A N/A  The Data  The soda ash, so and full properties and full properties and full properties are solved as a second as	Flammable and.	int on Rate (Butyles Limits quipment.	Acetate=1)		N/A N/A
(Reproduce Locally) OSHA 174, Sept. 198:	Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (Air=1)  Solubility in Water  N/A  Appearance in Odor  N/A  Section IV - Fire and Explosion Hazar  Flash Point (Method Used)  N/A  Extinguishing Media  Do not use water. Use dry chemical, s  Special Fire Fighting Procedures  Use self contained breathing apparatu  Unusual Fire and Explosion Hazards  Do not recharge, disassemble, heat ak  Vent, rupture or explosion may result a	N/A N/A N/A  The Data  The soda ash, so and full properties and full properties and full properties are solved as a second as	Flammable and.	int on Rate (Butyles Limits quipment.	Acetate=1)	ontents to v	N/A N/A UEL

Section V - React	ivity Data					
Stability	Unstable		Conditions to	o Avoid:		
	Stable	XX	Vent ruptui	re or explosion will release thionyl chloride		
Incompatibility (Material	s to Avoid)					
SOC1 <sub>2</sub> Water, I	numid air, alkalies, and	d temperat	ure above 14	10°C (284°F)		
Hazardous Decomposit	ion or Byproducts					
SOC1 <sub>2</sub> In prese	ence of water or humic	d air, hydro	chloric acid 8	& sulfur oxide.		
Hazardous	May Occur		Conditions to	o Avoid		
Polymerization	Will Not Occur	XX				
Section VI - Healt	h Hazard Data					
Routes(s) of Entry	Inhalation?	S	kin?	Ingestion?		
Eyes	Yes	Y	'es	Yes		
Health Hazards (Acute						
		kin. Upper	respiratory in	rritant. Continuous inhalation of fumes		
may cause lung	damage.					
Carcinogenicity	NTP?	IARC Mo	onographs?	OSHA Regulated?		
N/A		<i>D</i> 11 ( ) 11 (	mographo.	oor with ogalated.		
Signs and Symptoms of	Exposure					
SOC1 <sub>2</sub> - Eye and	skin irritation, punge	nt odor an	d respiratory	irritation.		
Medical Conditions Gen	erally Aggravated by Expos	ure		WWW		
N/A						
Emergency and First Air	d Procedures					
If free(S0C1 <sub>2</sub> ) is	present, evacuate are	eas and pro	ovide ventilati	ion, wash exposed area with soda ash		
or sodium bicarb	onate solution. Seek r	nedical att	ention.			
Section VII - Prec	autions for Safe Han	dling and	Use			
Steps to Be Taken in Ca	ase Material is Released or	Spilled				
Avoid contact if v	ent rupture or explosi	on has occ	curred. Other	wise protect from heat,		
short circuit of te	rminals, an accumulat	tion of sho	rted batteries	, which may cause dangerous		
elevated tempera	atures					
Waste Disposal Method						
Dispose of waste	according to federal	EPA, state	and local re	gulations.		
			·			
	in Handling and Storing	(0.5705)				
	uit, heat above 125°C	(25/°F), r	ecnarge, disa	assemble, incinerate or		
expose to water.						
Other Precautions						
Section VIII - Con	trol Measures					
Respiratory Protection (						
	ed breathing apparatus	s				
entilation	Local Exhaust			Specific		
J. MIGHOTT	Loodi Exiladol			- F		
	Mechanical (General)			Other		
N/A						
Protective Gloves	1	······································	Eye Protecti	on		
Neoprene	• · · · · · · · · · · · · · · · · · · ·			mmended		
Other Protective Clothin	g or Equipment					
N/A						
Work/Hygienic Practices	3					
N/A						