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MCL5S

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/01/2004

1.	PRODUCT IDEN	TIFICATION	CHEMICAI	. RESPC	ONSE (CARD:	02
1.1	Product Name:	CaiLube MCL, MCL5S-H6, 5% Spray, 142 g	RESPONSE		\int_{0}^{∞}		
1.2	Chemical Name:	See ingredients listed in section 2	TEAM PPE:	lacksquare	-		
1.3	Synonyms:	CaiLube MCL, MCL5S-H6, 5% Spray	WILLAMIC.			T	
1.4	Trade Names:	CaiLube MCL, MCL5S-H6, 5% Spray	WHMIS:	$ \bigcirc $		\bigcirc	
1.5	Product Use:	Lubricant for conductive plastics & carbon-based controls	HEALTH:				1
1.6	Manufacturer's Name:	CAIG Laboratories, Inc.	FLAMMABIL	ITY:			2
1.7	Manufacturer's Address:	12200 Thatcher Court, Poway, CA 92064-6876	REACTIVITY	:			0
1.8	Business Phone:	+1 (800)-224-4123	PERSONAL	PROTEC	TION:		В
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-703-527-38	87				
1.10	Other Product Names:	CaiLube MCL, MCL5MS-H15, 5% Spray, 14 g					

2. COMPOSITION & INGREDIENT INFORMATION

	_, _,	• •								
						EXPO	SURE LIMI	TS IN AIR	(mg/m³)	
					AC	GIH		OSHA		OTHER
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
PETROLEUM NAPHTHA	64742-88-7	XS5250000	265-191-7	≤ 75	100	NE	100	NE	NE	
HYDROCARBON PROPELLANT:				≤ 20						
ISOBUTANE	75-28-5	TZ4300000	200-857-2		NE	NE	NE	NE	NE	
PROPANE	74-98-6	TX2275000	200-827-9		NE	NE	1000	NE	NE	
CaiLube MCL, MCL100L-H	TRADE SECRET			≤ 5	NE	NE	NE	NE	NE	

NA = Not Available; ND = Not Determined; NE = Not Established; 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 Z400.1-2003 format.



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	ared to OSHA, AC			1SDS Revision: 1.0		SDS Revision Da		
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		3. HAZARD I	DENTI	FICATION				
.1	Hazard Identification: Colorless, volatile liquid with ethereal and faint sweetish odor. Flammable aerosol. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces.							
2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:		YES
.3	Effects of Exposure: EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact dermatitis (localized redness or rash). INGESTION: Gastrointestinal irritation and central nervous system depression. INHALATION: Central nervous system depressant. Irritating to the upper respiratory tract.							
.4	Symptoms of Overexposure: EYES: Mild irritation, redness, and watering. SKIN: Contact dermatitis, characterized by localized red or puffy dry skin and itching. INGESTION: Nausea, vomiting, and diarrhea. INHALATION: Mouth, nose, and throat irritation, dizziness, nausea, light-headedness, drunkenness, and loss of coordination.							
3.5 Acute Health Effects: INGESTION: Gastrointestinal irritation and central nervous system depression. EYES: Mild to moderate irritation. SKIN: Irritant and potential skin sensitizer. Prolonged or repeated contact may cause contact derivedness or rash).				ermatitis (la	ocalize			
	INGESTION: INHALATION:	Gastrointestinal irritation and central nervou	ıs svstem	doproccion				
		Central nervous system depressant. Irritating	•	•	ract.			
6	Chronic Health Effects: EYES: SKIN:	•	ig to the ι	pper respiratory t		use contact de	ermatitis (la	ocalize
6	Chronic Health Effects: EYES:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo	ng to the uponged or us system	repeated contact	ct may ca	use contact de	ermatitis (la	ocalize
	Chronic Health Effects: EYES: SKIN: INGESTION:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating	ng to the uponged or us system	repeated contact	ct may ca	use contact de	ermatitis (la	ocalize
	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating	onged or us system	repeated contact depression.	ct may ca	use contact de	ermatitis (la	ocalize
7	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating	onged or us system ag to the us	repeated contact depression. upper respiratory to the second seco	ct may ca			
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7	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and res First Aid: EYES:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating spiratory system. 4. FIRST AI Flush eyes thoroughly with copious amour complete flushing. If irritation persists, seek if Remove contaminated clothing and wash	onged or us system ig to the use of working affected ted clothic	repeated contact depression. Upper respiratory to the second depression. Upper respiratory to the depression depression depression. Upper respiratory to the depression depressi	ct may ca ract. 5 minutes, on. and water	holding eyelid(s) open to	o ensu
7	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and res First Aid: EYES: SKIN:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolocedness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating spiratory system. 4. FIRST AI Flush eyes thoroughly with copious amour complete flushing. If irritation persists, seek in Remove contaminated clothing and wash medical attention. Do not wear contaminated.	onged or us system in the use of water affected ted clothin on tact a pathing is a	repeated contact depression. Upper respiratory to the depression depression. Upper respiratory to the depression depressi	or may ca ract. 5 minutes, on. and water s been prop	holding eyelid(. If irritation pe perly cleaned.	s) open to	ensu prom
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7	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and res First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions Ag	Mild to moderate irritation. Irritant and potential skin sensitizer. Proloredness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating spiratory system. 4. FIRST AI Flush eyes thoroughly with copious amour complete flushing. If irritation persists, seek is Remove contaminated clothing and wash medical attention. Do not wear contaminate Drink plenty of water. If irritation persists, con Remove victim to fresh air at once. If bread medical attention. If breathing stops, performance is a sensitive of the sensitiv	onged or us system in the use of water affected ted clothin on tact a pathing is a	repeated contact depression. Upper respiratory to the depression depression. Upper respiratory to the depression depressi	or may caract. 5 minutes, on. and water is been proper supplement	holding eyelid(If irritation peoerly cleaned.	s) open to	ensu prom
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.7	Chronic Health Effects: EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and res First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions Ag	Mild to moderate irritation. Irritant and potential skin sensitizer. Proloredness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritating spiratory system. 4. FIRST AI Flush eyes thoroughly with copious amour complete flushing. If irritation persists, seek is Remove contaminated clothing and wash medical attention. Do not wear contaminate Drink plenty of water. If irritation persists, collected attention. If breathing stops, performand personal	onged or us system in the use of water affected ted clothin on tact a pathing is a	repeated contact depression. Upper respiratory to the depression depression. Upper respiratory to the depression depressi	or may caract. 5 minutes, on. and water been proper supplement HEALTH FLAMM REACTION	holding eyelid(If irritation perperly cleaned. Intal oxygen and	s) open to rsists, seek d seek imi	promitted in the second of the



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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/01/2004 5. FIREFIGHTING MEASURES Flashpoint & Method: 48.8 °C - 54.4 °C (120 °F - 130 °F). Level 2 aerosol. 52 Autoignition Temperature: NΔ Flammability Limits: 5.3 Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA Fire & Explosion Hazards: 5.4 Carbon dioxide, carbon monoxide, hydrocarbons. 5.5 Extinguishing Methods: CO₂, Alcohol foam, Dry Chemical, Water Fog 5.6 Firefighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water spray to cool containers involved in fire. Do not use direct water stream. Container storage areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for assistance and/or reporting requirements. 7. HANDLING & STORAGE INFORMATION 7 1 Work & Hygiene Practices: Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact. 72 Storage & Handling: Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks, open flame, and other sources of ignition. Normal shelf-life: 2-3 years. 7.3 Special Precautions: Empty containers can contain flammable vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8 1 Ventilation & Engineering Controls Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 82 Respiratory Protection: None required, when used with adequate ventilation. 8.3 Wear safety glasses with side shields (ANSI Z87) under normal use conditions. 8.4 None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves. **Body Protection:** 8.5 Use as necessary to prevent skin contact.



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		9. PHYSICAL & CH	IEMICAL PROPERII	ES			
1	Density:	0.75					
2	Boiling Point:	171.1 °C – 204 °C @ 760 mmHg					
3	Melting Point:	NA .					
4	Evaporation Rate:	.11 (n-Butyl Acetate = 1.0)					
5	Vapor Pressure:	35 psig @ 20 °C, 50 psig @ 50 °	С				
5	Molecular Weight:	NA					
7	Appearance & Color:	Light blue/green, aerosol					
3	Odor Threshold:	Ethereal/hydrocarbon odor					
9	Solubility:	Not soluble in water					
.10	Hq	ND					
.11	Viscosity:	10.0 cps					
12	Other Information:	Vapor Density = 4.9 (Air = 1.0)					
		10. STABILIT	Y & REACTIVITY				
).1	Stability:	Stable under normal condition	ns of use (see section 7).				
0.2	Hazardous Decomposition Products:		oosure to ultraviolet light	or exceeding shelf life. Will not degrade			
0.3	Hazardous Polymerization:	Will not occur.					
0.4	Conditions to Avoid:			00 °F) or other heat sources, and proximity			
0.5	Incompatible Substances:	Strong oxidizers.					
1.1	Toxicity Data:		rea on animais to obtain to	oxicological data. There are toxicology da			
		been presented in this docum		the scientific literature. These data have n			
1.2	Acute Toxicity:			the scientific literature. These data have n			
	Acute Toxicity: Chronic Toxicity:	been presented in this docum		the scientific literature. These data have n			
1.3	· ·	been presented in this docum See section 3.5		the scientific literature. These data have n			
1.3	Chronic Toxicity:	See section 3.5 See section 3.6	ent.				
1.3	Chronic Toxicity: Suspected Carcinogen:	See section 3.5 See section 3.6 NE	produce reproductive tox	icity in humans.			
1.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity:	See section 3.5 See section 3.6 NE This product is not reported to This product is not reported to This product is not reported to	produce reproductive tox produce mutagenic effec produce embryotoxic effec	icity in humans. ts in humans. ects in humans.			
1.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	See section 3.5 See section 3.6 NE This product is not reported to	produce reproductive tox produce mutagenic effec produce embryotoxic effe produce teratogenic effec	icity in humans. ts in humans. ects in humans. cts in humans.			
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14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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

14.2 IATA (AIR):

CONSUMER COMMODITY, 9, ID8000 (≤ 500 ml)

AEROSOLS, 2.1, UN1950 (> 500 ml)

14.3 IMDG (OCN):

AEROSOLS, 2, UN1950, LTD QTY (≤ 1.0 L)

14.4 TDGR (Canadian GND):

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)



1950 AEROSOLS, 2, 5 A, ADR, LTD QTY

15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

NA

14.5

15.2 SARA Threshold Planning Quantity:

NA

15.3 TSCA Inventory Status:

All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.

15.4 CERCLA Reportable Quantity (RQ):

NA

15.5 Other Federal Requirements:

N/

15.6 Other Canadian Regulations

This product has been classified according to the hazard criteria of the Controlled Products Regulations (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.



15.7 State Regulatory Information:

The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65; Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substances List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic Substances List.

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

<u>Petroleum Naphtha</u>: Flammable, Harmful (F, Xn). R: 10-65 — Flammable. Harmful: may cause lung damage if swallowed. S: 2-23-24-62 — Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS or the container label.





310-370-3600 phone 310-370-5700 fax

http://www.shipmate.com/

MATERIAL SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/01/2004 16. OTHER INFORMATION Other Information: NA 16.2 Terms & Definitions: See page 7 of this MSDS. 16.3 Disclaimer: This Material 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 & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. 16.4 Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/ 16.5 Prepared by: ShipMate, Inc. **ShipMate** 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

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.

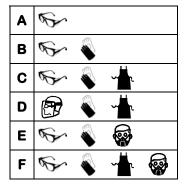
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

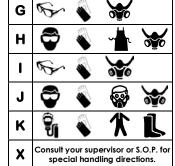
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

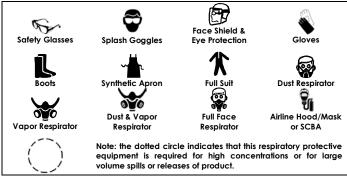
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

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

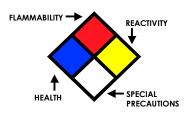
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	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,
	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:

Minimal Hazard
Slight Hazard
Moderate Hazard
Severe Hazard
Extreme Hazard
Acidic
Alkaline
Corrosive
Use No Water
Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or TC, TC _o , LC _{Io} , & LC _o	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
TLm	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)				

EC INFORMATION:

1		N	*		9	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful