

Page 1 of 7 **D5S**

Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards

MSDS Revision: 1.0

MSDS Revision Date: 11/01/2003

1.	PRODUCT IDEN	TIFICATION	CHEMICAL	RESPO	ONSE C	CARD:	02
1.1	Product Name:	DeoxIT Power Booster, D5S-6, 5% Spray, 200 ml	RESPONSE	=	(m)		
1.2	Chemical Name:	See ingredients listed in section 2	TEAM PPE:	lacksquare			
1.3	Synonyms:	DeoxIT Power Booster, D5S-6, 5% Spray	VAZI IAAIC.			T	
1.4	Trade Names:	DeoxIT Power Booster, D5S-6, 5% Spray	WHMIS:	$ \bigcirc $		\bigcirc	
1.5	Product Use:	Clean, deoxidize & improve electrical contacts & connectors	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 F	ROTEC	TION:		В
1.9	Emergency Phone:	CHEMTREC 1-800-424-9300/1-703-527-388	7				
1.10	Other Product Names:	DeoxIT Power Booster, D5MS-15, 5% Spray, 20 ml					•

2. COMPOSITION & INGREDIENT INFORMATION

		• • • • • • •								
					EXPOSURE LIMITS 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	75-28-7	TZ4300000	200-857-2		NE	NE	NE	NE	NE	
PROPANE	74-98-6	TX2275000	200-827-9		NE	NE	1000	NE	NE	
DeoxIT Power Booster D100L	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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		C, ANSI, WHMIS & 2001/58 EC Standards		MSDS Revision: 1.0	7*1	SDS Revision [3010.11/01/2	_000
		3. HAZARD	IDENTI	FICATION				
.1	Hazard Identification:							
	concentration.	e liquid with ethereal and faint sweetish odo At higher levels, CNS depression and cardic on in confined spaces.						
2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestio	n:	YES
.3	Effects of Exposure: EYES: SKIN: INGESTION: INHALATION:	Mild to moderate irritation. Irritant and potential skin sensitizer. Proloredness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritation	us system	n depression.	·	use contact	dermatitis (I	ocalize
.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.							
.5	Acute Health Effects: INGESTION: EYES: SKIN:	Gastrointestinal irritation and central nervol Mild to moderate irritation. Irritant and potential skin sensitizer. Prole redness or rash).	onged o	•	ct may ca	use contact	dermatitis (I	ocalize
	INGESTION:	Gastrointestinal irritation and central nervou						
	INHALATION:	Central nervous system depressant. Irritatin	•	•	ract.			
6	INHALATION: Chronic Health Effects EYES: SKIN:		ng to the	upper respiratory t		use contact	dermatitis (l	ocalize
6	Chronic Health Effects EYES:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prole	ng to the onged o us system	upper respiratory to repeated contain depression.	ct may ca	use contact	dermatitis (l	ocalize
	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prole redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin	ng to the onged o us system	upper respiratory to repeated contain depression.	ct may ca	use contact	dermatitis (I	ocalize
	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prole redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin	ng to the onged o us system	upper respiratory to repeated contain depression.	ct may ca	use contact	dermatitis (I	ocalize
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7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re	Mild to moderate irritation. Irritant and potential skin sensitizer. Prole redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin	onged o us system	upper respiratory to r repeated contain depression. upper respiratory t	ct may ca	use contact	dermatitis (I	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. Irritatin	onged o us system ng to the	upper respiratory to repeated contain depression. upper respiratory to the state of	ct may ca			
7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin spiratory system. 4. FIRST A Flush eyes thoroughly with copious amou	onged of the onged	or repeated contain depression. upper respiratory to the second of the s	ct may ca ract. 5 minutes, ion. and water	holding eyeli	id(s) open t	o ensu
7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re 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. Irritatin spiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash	onged of the conged of the con	r repeated contain depression. upper respiratory to the depression and depression are respiratory to the depression attention of the depression attention are depression attention of the depression attention are depression attention atte	ct may ca ract. 5 minutes, ion. and water	holding eyeli	id(s) open t	o ensu
7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN:	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin spiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash medical attention. Do not wear contamina	onged of the onged	r repeated contain depression. upper respiratory to a depression. upper respiratory to a depression	ract. 5 minutes, ion. and waters been prop	holding eyeli . If irritation perly cleaned	id(s) open to persists, seel	o ensu
7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions As	Mild to moderate irritation. Irritant and potential skin sensitizer. Prologoredness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritationspiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash medical attention. Do not wear contaminated prink plenty of water. If irritation persists, contaminated personal prink plenty of water. If irritation persists, contaminated personal	onged of the onged	r repeated contain depression. upper respiratory to a depression. upper respiratory to a depression	ract. 5 minutes, ion. and waters been prop	holding eyel . If irritation perly cleaned	id(s) open to persists, seel	o ensu
7	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions As	Mild to moderate irritation. Irritant and potential skin sensitizer. Prolo redness or rash). Gastrointestinal irritation and central nervou Central nervous system depressant. Irritatin spiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash medical attention. Do not wear contamina Drink plenty of water. If irritation persists, co Remove victim to fresh air at once. If bree medical attention. If breathing stops, perfo	onged of the onged	r repeated contain depression. upper respiratory to a depression. upper respiratory to a depression	ot may ca ract. 5 minutes, ion. and water s been proper supplement	holding eyel . If irritation poerly cleaned ental oxygen	id(s) open to persists, seel	o ensu c prom
.1	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions As	Mild to moderate irritation. Irritant and potential skin sensitizer. Prologoredness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritationspiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash medical attention. Do not wear contaminated prink plenty of water. If irritation persists, contaminated personal prink plenty of water. If irritation persists, contaminated personal	onged of the onged	r repeated contain depression. upper respiratory to a depression. upper respiratory to a depression	ot may ca ract. 5 minutes, ion. and water s been proper supplement	holding eyeli . If irritation poerly cleaned ental oxygen	id(s) open to persists, seel	o ensu c prom
.1	Chronic Health Effects EYES: SKIN: INGESTION: INHALATION: Target Organs: Eyes, skin and re First Aid: EYES: SKIN: INGESTION: INHALATION: Medical Conditions As	Mild to moderate irritation. Irritant and potential skin sensitizer. Prologoredness or rash). Gastrointestinal irritation and central nervous Central nervous system depressant. Irritationspiratory system. 4. FIRST A Flush eyes thoroughly with copious amou complete flushing. If irritation persists, seek Remove contaminated clothing and wash medical attention. Do not wear contaminated prink plenty of water. If irritation persists, contaminated personal prink plenty of water. If irritation persists, contaminated personal	onged of the onged	r repeated contain depression. upper respiratory to a depression. upper respiratory to a depression	ot may caract. 5 minutes, ion. and waters been proper supplements HEALTH FLAMM REACT	holding eyeli . If irritation poerly cleaned ental oxygen	id(s) open to persists, seel l. and seek im	o ensurado e



Body Protection:

Use as necessary to prevent skin contact.

8.5

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: 11/01/2003 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.



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	pared to OSHA, ACC, ANSI, WHA	nis & 2001/58 EC Standards	MSDS Revision: 1.0	MSDS Revision Date: 11/01/2003
		9 PHYSICAL & CI	HEMICAL PROPERTIES	
.1	Density:	0.75		
.2	Boiling Point:	171.1 °C – 204 °C @ 760 mmH	g	
.3	Melting Point:	NA	9	
.4	Evaporation Rate:	0.11 (n-Butyl Acetate = 1.0)		
.5	Vapor Pressure:	<u> </u>		
.6	Molecular Weight:	35 psig @ 20 °C, 50 psig @ 50 °		
.7	Appearance & Color:	NA		
.8	Odor Threshold:	Light red, aerosol		
.9	Solubility:	Ethereal/hydrocarbon odor		
		Not soluble in water		
.10	pH	ND		
.11	Viscosity:	10.0 cps		
.12	Other Information:	Vapor Density = 4.9 (Air = 1.0)		
		10. STABILIT	Y & REACTIVITY	
0.1	Stability:	Stable under normal conditio	ns of use (see section 7).	
0.2	Hazardous Decomposition Products:	Change in color signifies ex unstable products. Discard se		xceeding shelf life. Will not degrade
0.3	Hazardous Polymerization:	Will not occur.		
0.4	Conditions to Avoid:	Use or storage near open flatincompatible substances and		F) or other heat sources, and proximity
0.5	Incompatible Substances:	Strong oxidizers.	•	
			oduct, which are found in the	ological data. There are toxicology do scientific literature. These data have
1.2	Acute Toxicity:	See section 3.5		
	Acute Toxicity: Chronic Toxicity:	See section 3.6		
1.3	· ·			
1.3	Chronic Toxicity:	See section 3.6 NE	produce reproductive toxicity	in humans.
1.3	Chronic Toxicity: Suspected Carcinogen:	See section 3.6 NE This product is not reported to this product is not reported to the section 3.6	produce reproductive toxicity produce mutagenic effects in	humans.
1.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity:	See section 3.6 NE This product is not reported to the this product is not reported to the this product is not reported to	produce mutagenic effects in produce embryotoxic effects	humans. in humans.
1.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity:	See section 3.6 NE This product is not reported to	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in	humans. in humans. n humans.
1.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	See section 3.6 NE This product is not reported to	produce mutagenic effects in produce embryotoxic effects	humans. in humans. n humans.
1.3 1.4 1.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	See section 3.6 NE This product is not reported to See Section 3.3	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in	humans. in humans. n humans.
1.3 1.4 1.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See section 3.6 NE This product is not reported to See Section 3.3 NE	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in	humans. in humans. n humans.
1.3 1.4 1.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	See section 3.6 NE This product is not reported to See Section 3.3	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in	humans. in humans. n humans.
1.3 1.4 1.5	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically.	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in	humans. in humans. n humans.
1.3 1.4 1.5 1.6 1.7	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically.	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects of produce reproductive effects.	humans. in humans. n humans.
1.3 1.4 1.5 1.6 1.7 1.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds.	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects in produce reproductive effects. CAL INFORMATION tile from soil. Components of	humans. in humans. in humans. in humans.
1.3 1.4 1.5 1.6 1.7 1.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data available.	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects produce reproductive effects. CAL INFORMATION rile from soil. Components of liable for this product.	humans. in humans. in humans. in humans. this product will slowly decompose in
1.2 1.3 1.4 1.5 1.6 1.7 1.8 2.1 2.2 2.3	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data available.	produce mutagenic effects in produce embryotoxic effects produce teratogenic effects in produce reproductive effects produce reproductive effects. CAL INFORMATION rile from soil. Components of liable for this product.	humans. in humans. in humans. in humans.
1.3 1.4 1.5 1.6 1.7 1.8	Chronic Toxicity: Suspected Carcinogen: Reproductive Toxicity: Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals: Effects on Aquatic Life:	See section 3.6 NE This product is not reported to See Section 3.3 NE Treat symptomatically. 12. ECOLOGIC This product will slowly volation organic compounds. There is no specific data available.	consider this product. CONSIDERATIONS	humans. in humans. in humans. in humans. this product will slowly decompose in



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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)

ORM-D

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.





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		16. OTHER INF	ORMATION	
16.1	Other Information:			_
	NA			
16.2	Terms & Definitions:			
	See page 7 of this MSDS.			
16.3	Disclaimer:			
	government regulations must be review knowledge, the information contained the are not guaranteed and no warranties	wed for applicability to the nerein is reliable and accu s of any type, either expre . If this product(s) is co	is product. To the best of trate as of this date; howe essed or implied, are proventially mbined with other mate	n Standard, 29 CFR §1910.1200. Other of ShipMate's & CAIG Laboratories, Inc.'s ever, accuracy, suitability or completeness vided. The information contained herein trials, all component properties must be
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/	EAGE LABORATORIES, INC.		
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com/	ShipMate* Dangerous Goods Training & Consulting		



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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.

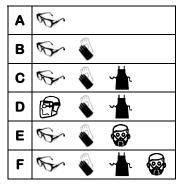
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

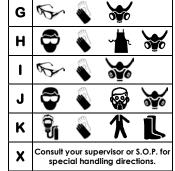
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

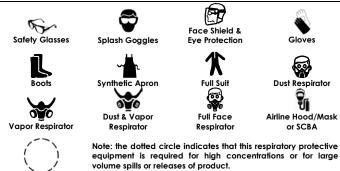
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



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

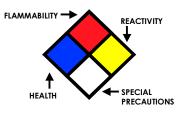
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W -	Use No Water
OX	Oxidizer



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	Lowest dose (or concentration) to cause lethal or					
TC, TC _o , LC _{io} , & LC _o	toxic effects					
IARC	IARC International Agency for Research on Cancer					
NTP	NTP National Toxicology Program					
RTECS	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:

T.		No.	*		Q	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful